Environmental Consultants
434 7th Street, Suite B
Eureka, CA 95501
707.476.1590
FAX 707 476.1589
www.scsengineers.com

SCS ENGINEERS

Report of Findings:
Additional Subsurface Investigation

Schmidbauer Lumber, Inc.
1099 Waterfront Drive
Eureka, California
1NHU602

File Number 01203316.00

Prepared by:

SCS Engineers
434 7th Street, Suite B
Eureka, California 95501

To:

Kasey Ashley
North Coast Regional Water Quality Control Board
5550 Skylane Boulevard, Suite A
Santa Rosa, California 95403

31 January 2006

LIMITATIONS/DISCLAIMER

This workplan has been prepared for Schmidbauer Lumber, Inc., with specific application to additional investigation for plume definition as required by the North Coast Regional Water Quality Control Board in accordance with Cleanup and Abatement Order No. R1-2005-0040 for the Schmidbauer Lumber property located at 1099 Waterfront Drive, Eureka, California (the "Site"). This report has been prepared in accordance with the care and skill generally exercised by reputable professionals, under similar circumstances, in this or similar localities. The conclusions contained herein are based on analytical data, and points of exploration. The nature and extent of subsurface conditions may and likely do vary between borings and/or points of exploration. No other warranty, either expressed or implied, is made as to the professional conclusions presented herein.

Access to the Property was limited by buildings, automotive traffic, underground and aboveground utilities, and other miscellaneous site features. Therefore, the field exploration and points of subsurface observation were somewhat restricted.

Changes in site use and conditions may occur due to man-made changes or variations in rainfall, temperature, water usage, or other factors. Additional information which was not available to the consultant at the time of this assessment or changes which may occur on the site or in the surrounding area may result in modification to the site that would impact the summary presented herein. This report is not a legal opinion.

We look forward to continuing to work with you on this project and trust this report provides the information you require at this time. If you have any questions or need additional information, please call SCS at 707.476.1590.

KLC

Kevin L. Coker
Registered Environmental Assessor #7887

2-2-06

Date
Current Expiration Date: 30 June 2006

KWFresnel

Karin W. Fresnel
California Certified Engineering Geologist #2264

PROFESSIONAL GEOLOGIST
KARIN W. FRESNEL
No. 2264
CERTIFIED
ENGINEERING
GEOLOGIST
STATE OF CALIFORNIA

31 January 2006

Date
Current Expiration Date: 31 August 2007

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Introduction

SCS Engineers is pleased to present this report of findings for the additional subsurface investigation at Schmidbauer Lumber, Incorporated, 1099 Waterfront Drive, Eureka, California (the Site). The report has been prepared in accordance with the approved 28 July 2005 *Workplan: Additional Subsurface Investigation* and the North Coast Regional Water Quality Control Board (NCRWQCB) Cleanup and Abatement Order R1-2005-0040 (Order). The Site is located in sections 21 and 28, T5N, R1W of the Eureka 7.5 minute quadrangle. The Site location is illustrated on the Site Location Map (Figure 1). General Site features are illustrated on Figure 2.

1.0 SITE BACKGROUND

1.1 SITE HISTORY AND PREVIOUS INVESTIGATIONS

1.1.1 Background

The following is a brief overview of Site history and information relevant to releases at the Site. The Site location is historic filled tidelands (tidal marsh and associated channels). Fill placed at the Site dominantly appears to consist of hydraulic dredge spoils placed prior to Site development in the late 1940's. The Site was initially developed by Hammond Lumber Company (Hammond) in about 1948. Hammond occupied the site as a lumber mill until 1960, when Norris Redwood (Norris) took over site operations. Norris Redwood also operated the site as a lumber mill until 1967. In 1968, Georgia-Pacific Corporation (GPC) began operating a lumber mill at this location, continuing operations at the site until 1972 when the Site was acquired by Schmidbauer Lumber Company (Schmidbauer). Hammond, Norris, and GPC reportedly processed only redwood and did not treat wood on this Site.

Schmidbauer began operations at the Site in 1972. Schmidbauer processes softwoods (dominantly Douglas fir) and began treating finished lumber with Noxtane, an anti-staining fungicide containing pentachlorophenol (PCP) after acquiring the Site in 1972. Treatment operations at the Site were conducted in the main mill building (Mill #1). Schmidbauer continued wood treatment operations at the Site until 1983 when the use of fungicides was discontinued. Wood treatment operations at the Site were confined to the interior of this concrete-floored building. It is SCS' understanding that the treatment area is much the same today as when wood treatment was conducted at the Site.

Indications are that Noxtane diluted with water (1 to 100) sporadically flowed from the wood treatment area as a result of equipment malfunction into an exterior covered area to the east. Schmidbauer representatives have reported that the releases occurred between 1980 and 1983. According to Schmidbauer representatives, wood treatment operations were performed using spray nozzles, a collection tank beneath the applicators and associated product return lines. Sporadic releases occurred when the return system became plugged, resulting in overflow from the collection tanks. Releases also occurred when the lumber conveyance system jammed in the

planer, resulting in saturation of the wood being treated and associated runoff from the treated lumber. The number and volume of releases is unknown.

1.1.2 Previous Environmental Investigations

A series of investigations beginning in 1997 have been conducted at the Site in an effort to determine the lateral and vertical extent of soil and groundwater impact by chlorophenols at the Site. Several subsurface investigative iterations, including soil sampling and installation of temporary wellpoints, and shallow and deep wells, have been conducted at the Site on an ongoing basis since inception of the investigation program in 1997 (Tables 1-26, Figures 3a-5c). A complete history of investigations to date are presented in volumes 1 and 2 of the *Results of Monitoring Well Installation and Drilling of additional Borings (Revised) and Results of Additional Deep Monitoring Well Installation* prepared by SCS for Department of Toxic Substances Control (DTSC) and revised 29 October 2004 (SCS, 2004).

1.2 SITE CONCEPTUAL MODEL

The site and site vicinity have been characterized as a tidal marshland prior to development of the area, which began in 1876. Reviews of historic maps of the area dating back to 1858 identify the site as tidal marsh that was later filled (Figures 6a-6e and 7). Clark Slough passes just east of the site flowing north-northwesterly to Humboldt Bay. The 1942 USGS Eureka 15-minute Quadrangle map illustrates marshlands and a small water body (open water marsh) in the approximate location of the present day Site. The Site is illustrated (Figure 7) in the *Map of City of Eureka, California Showing Original Water Courses and Fill Areas (1854-1955)*. Tidal marshlands are typically dominated by silt and clay (Bay Mud) with high organic content (e.g. marsh grasses and associated root systems, decaying vegetation, peat) interlayered with coarse-grained materials (e.g. sand, gravel) from meandering stream distributaries and tidal channels. Bay Mud layers are typically discontinuous or lenticular (Goldman, 1969). The marshland areas of Eureka reportedly began receiving fill as early as 1854. The Site apparently began receiving fill in the early to middle 1940's prior to development in the late 1940's. Fill present at the Site appears to be composed of sand with minor shells and fines. The fill present at the Site appears consistent with hydraulic fills likely representing dredge spoils.

Sand has been encountered from the near surface (beneath improvements such as asphalt and base rock) to the maximum depth explored thus far on the site of 50 feet. Thin layers (0.5 to 2 feet thick) of Bay Mud, consisting of mixtures of very fine grained sand, silt, clay, and peat along with grass, and other organic matter, were identified in some borings at shallow depths, generally less than or about 8 feet below existing ground surface (bgs) (Figures 8-8d, Table 21). This material likely represents the historic tidal marsh horizon prior to fill being placed. Discontinuous layers of clay, peat, and very fine grained sand and silt have been identified in some, but not all borings. A careful review of bore logs was conducted in an effort to define the presence of the tidal marsh horizon. A summary of the detections of materials identified as Bay Mud, peat or where plant materials were encountered in various boreholes drilled at the Site is presented in Table 21. This information was incorporated in geologic cross-sections of the Site at the request of the regulatory agencies.

The lithology encountered in borings generally supports the history of the Site as being part of an evolving beach/sand dune and coastal marshland, or minor estuarine environment. It also supports the site being on the inland side of sand dunes, as in excess of 100 feet of sand has been measured in the vicinity of Humboldt Bay (Evenson, 1959; Johnson 1978).

Based on the lithology observed in borings drilled at the Site to date, it appears that much of the Site was in a coastal beach/dune sand depositional environment for a longer period of time than it was in a tidal marshland/estuarine environment. Groundwater was encountered in borings drilled in 1997 at a depth of approximately 3 to 5 feet bgs. Additionally, during the September 2003 and January 2004 drilling programs, groundwater was initially encountered in each of the borings drilled at depths ranging from approximately 1.5 to 6 feet bgs. Fluctuations in the depth to the shallow groundwater table of approximately 2 feet or less have been observed from summer to winter since installation of the monitor wells (SCS, 2004d). Groundwater levels are highest in the first quarter of the year and lowest in the third quarter of the year, generally corresponding to season (SCS, 2004d).

Groundwater levels in deep wells (MW-2, MW-8D, and MW-9D) have been consistently 3 to 4 feet lower than the groundwater levels in the shallow wells (SCS, 2005e). The lithology encountered in the three deeper wells is similar (SCS, 2004d). No significant clay layer or aquitard was observed which would warrant the installation of conductor casing in the deep wells.

Previous investigations indicate that the site is dominantly underlain by hydraulic fill (sands) placed over preexisting tidal marsh deposits. The marsh deposits are represented by silt and clay with organic matter variously described as peat or grass with abundant roots. This likely represents the surface of the old tidal marsh horizon. These marsh deposits are generally thin varying from one-half to two feet in thickness (where present) and are discontinuous across the site based on the boring logs and cross-sections (Figures 8-8d). Based on this information, it appears that the silt/clay layer may be described as a leaky aquitard at best. The use of conductor casing with these conditions would not prevent the intermixing of shallow and deeper groundwater. Presence of discontinuous lenses and layers of silt and clay indicates that groundwater flow is likely impeded by these lenses. This would create the impression of multiple distinct aquifers when in fact groundwater flow is impeded within the transport zone of the groundwater table. This may explain the seeming appearance of two water-bearing zones at the Site and the distinct difference in groundwater elevations between the shallow and deeper monitor wells.

The monitor wells have been gauged and sampled on a periodic basis since installation. SCS conducted a review of groundwater conditions and flow regimes (SCS, 2005b) in accordance with the Order (NCRWQCB, 2005). Prior to the review of groundwater flow regimes with specific well groups, the generalized groundwater flow regime at the Site appeared to be southerly based on data from shallow wells and southeasterly in the deeper wells (Charts 1 and 2). Review of individual well groupings by SCS indicates that a shallow groundwater mound is present in the vicinity of monitor wells MW-1, MW-6, and MW-7 located between the mill

structures. The presence of this mound adversely influences resolution of site-wide or regional groundwater flow. Groundwater flow from this well group indicates a westerly groundwater flow direction (Chart 3). A well group consisting of wells MW-3, MW-3R, MW-4, and MW-5, appears more representative of site-wide or regional groundwater flow conditions. Groundwater flow from this well group indicates a dominantly south-southwesterly flow regime (Chart 4).

2.0 CURRENT INVESTIGATION – SEPTEMBER 2005

2.1 SOIL AND GROUNDWATER INVESTIGATION

2.2.1 Well Installation and Soil Sampling

Four monitor wells (MW-10 through MW-13) were installed on 19 and 20 September 2005 (Figure 2). The wellbores were drilled using eight-inch diameter hollow stem augers and were converted into monitor wells using two-inch diameter Schedule 40 flush threaded PVC casing. The screened interval in the monitor wells consists of 0.010-inch machine slotted screen extending to approximately 15 feet bgs in all wells with 10 feet of screen in each well. Approximately 1 to 1.5 feet of number 2/12 sand was placed in the bottom of each wellbore prior to casing installation. The filter pack was brought approximately one foot above the top of the screen. An approximately one foot thick bentonite seal was placed on top of the sand filter pack. The wells were completed to the surface with a cement seal. The PVC well casing in each monitoring well extends to within six inches bgs and is fitted with a waterproof locking cap. The wells are protected by traffic-rated, watertight circular vaults set in traffic rated concrete. Well completion details are presented on the attached Well Completion Diagrams (Appendix B).

Wellbores were continuously cored beginning at approximately two feet bgs. Soil samples collected were examined for lithology and evaluation for submission to the laboratory for appropriate analyses. Well logs are presented in Appendix A. Soil samples from each of the wellbores were submitted to Analytical Sciences, a California Department of Health Services-certified laboratory, in Petaluma, California under Chain-of-Custody documentation. Soil samples were collected following the SCS Standard Soil and Water Sampling Procedures and QA/QC Protocol (Appendix G).

Downhole drilling equipment was pressure washed between borings to prevent cross contamination between borings. Sampling equipment was also cleaned between sampling intervals and borings to prevent cross contamination between samples and borings. Drill cuttings were placed in labeled steel 55-gallon UN/DOT-approved 17E/H drums, pending characterization and disposal. Water generated by decontamination, well development, purging, and sampling are stored at the Site in labeled steel 55-gallon UN/DOT-approved 17E/H drums, pending characterization and disposal. Location of stored investigation generated wastes is illustrated on Figure 2.

2.2.2 Well Survey

The tops of the new monitoring well casings were surveyed under the supervision of Omsberg & Preston, a California licensed land surveyor, to ±0.01 feet elevation relative to mean sea level on 27 October 2005 (Appendix H).

Latitude and longitude of the monitoring wells has been determined to within ±1 meter. The surveyed monitoring well elevations and monitoring well locations will be submitted electronically to the State Department of Water Resources Geotracker database.

2.2.3 Well Development

Newly installed monitor wells were swabbed to help set the filter pack during well installation. Well seals were allowed to set for 72 hours prior to development. Wells were developed on 12 October 2005 using a surge block and a submersible field portable groundwater purge pump. Well development records for development activities are presented in Appendix D.

2.2.4 Groundwater Monitoring

Wells were allowed to recover for 24 hours after development prior to sampling. Depth to groundwater measurements were collected on 13 October 2005 from each newly installed well (MW-10 through MW-13). Depth to groundwater ranged from approximately 3.86 to 6.85 feet below top of casing. The depth to groundwater measurements and well casing elevations were used to calculate groundwater flow direction and gradient. Casing and groundwater elevations are reported in feet relative to mean sea level. Depths to groundwater are expressed in feet. Groundwater flow direction and gradient were not determined for this event. The newly installed wells have been included in the December 2005 monitoring event, the results of which will be submitted under separate cover.

2.2.5 Groundwater Sampling

Wells were allowed to recover for 24 hours after development prior to sampling. Monitor wells were purged of approximately three to four wetted well casing volumes, or at least five gallons, whichever was greater, using a submersible pump. Temperature, pH, conductivity, turbidity, and dissolved oxygen readings were measured during purging to help demonstrate that groundwater representative of aquifer conditions was entering the well casing. Wells were allowed to recover to 80 percent of static levels, or for two hours, prior to sampling. Groundwater samples were collected using a clean, disposable bailer for each well. Samples were transferred to appropriate laboratory-supplied containers for analysis. Groundwater samples were labeled, stored under refrigerated conditions, and transported under Chain-of-Custody documentation to Analytical Sciences, a California Department of Health Services-certified laboratory, in Petaluma, California. All samples were collected in accordance with the SCS Standard Soil and Water Sampling Procedures and QA/QC Protocol. Water generated during recent site investigative activities is currently stored at the site in 55-gallon UN/DOT-approved 17-E/H drums, pending characterization and disposal. Information related to well purging was recorded on groundwater field sampling forms. Well Purge Records are presented in Appendix E.

2.2.6 Laboratory Analysis

Soil samples collected from the new wellbores were analyzed for pentachlorophenol, tetrachlorophenols and trichlorophenols using the Canadian Pulp Method, for pH, and for total organic carbon (TOC). Groundwater samples collected from the newly installed wells were analyzed for pentachlorophenol, tetrachlorophenols and trichlorophenols using the Canadian Pulp Method. Laboratory analytical reports are presented in Appendix F.

2.2.7 Analytical Results - Soil

Laboratory analytical reports indicated the presence of 1.3 and 1.6 milligrams per kilogram (mg/kg) pentachlorophenol in the 11.0-11.5 and 16.0-16.5' soil samples, respectively, from wellbore MW-10. All other soil samples collected were below laboratory Method Detection Limits (MDLs) for chlorophenols. Soil pH ranged from 6.6 to 8.0 standard units. TOC ranges from 1,200 to 6,700 mg/kg. Results for analysis of soil are presented in Table 22 (attached).

2.2.8 Analytical Results - Groundwater

Laboratory analytical reports indicated the presence of 560 micrograms per liter (μg/L) 2,3,4,6 tetrachlorophenol and 3,600 μg/L pentachlorophenol in the groundwater sample from monitoring well MW-10, and 7.0 μg/L pentachlorophenol in the groundwater sample from MW-11. All other target analytes were below MDLs in these wells. Groundwater samples collected from wells MW-12 and MW-13 were below laboratory MDLs for all target analytes. Groundwater analytical results are presented in Tables 23 through 26 (attached).

2.3 DISCUSSION

Previous investigations have indicated the presence of chlorophenols in soil and groundwater in the generally vicinity of the former treatment and known release areas. Chlorophenols were also present in groundwater from borings and monitoring wells in this general area (Tables 10-20, Figures 3a-5c). Concentrations present in groundwater have declined through time to below laboratory MDLs (Tables 1-9).

This investigation included installation of a monitor well proximal to the former wood treatment facility to monitor groundwater conditions in this area. Concentrations of chlorophenols in soil at this location are generally low to below MDLs (Table 22). The recent investigation indicated the presence of chlorophenols in groundwater in the two wells most proximal to the former treatment facility (MW-10 and MW-11). Elevated concentrations of chlorophenols are present in MW-10 located adjacent to the former treatment facility. Concentrations are significantly lower in the MW-11, located approximately 50 feet south-southwest of MW-10. Analytical results are presented in Tables 23-26.

Shallow groundwater gradient data collected as part of the ongoing monitoring and reporting program indicate a Sitewide south-southwest flow regime with a groundwater mound present in the central portion of the site between the mill buildings. A local flow regime is present in this

area (west to west-northwest). Recent investigation findings coupled with existing monitoring data indicate that the chlorophenol groundwater plume beneath the Site appears to be confined to the general vicinity of the former wood treatment facility (near MW-10 and B-1). Additional monitoring will be necessary to complete this evaluation (see Section 2.4).

Analytical laboratory reports indicate that findings of this investigation are generally concordant with findings of previous investigations: Chlorophenols are present beneath the Site corresponding to the approximate footprint of the known use and release area.

Thin marsh and/or Bay Mud deposits were noted at varying depths in the wellbores (Table 21, Appendix A). Comparison of existing subsurface data with bore logs from the newly installed wells indicates subsurface conditions indicative of filled near shore tidal marsh/estuarine environments. Groundwater elevation data collected as part of the initial sampling indicate that the water level in well MW-13 was approximately two feet deeper than in the other newly installed wells. Differing groundwater elevations are likely related to the presence of discontinuous lenses of marshland/Bay Mud deposits as discussed in Section 1.2, above.

2.4 RECOMMENDATIONS

The newly installed wells will be incorporated into the existing quarterly monitoring program. Groundwater samples will be collected quarterly for one complete hydrologic cycle (low to high stands of groundwater) beginning with the fourth quarter 2005. Quarterly reports will be submitted to the NCRWQCB. Quarterly reports will include depth to groundwater, groundwater elevation, and laboratory analytical data presented in a tabular historic format and a brief discussion of quarterly results. An evaluation report will be submitted as part of the monitoring report upon completion of the proposed monitoring cycle. The report will present findings and recommendations for additional investigation, remedial action and/or closure, as appropriate. It is recognized that closure without additional remedial action may require deed restrictions.

SCS recommends the following changes to the existing monitoring and reporting program (MRP) R1-2000-15 based upon a review of data from existing and newly installed wells. The changes will be incorporated into the monitoring program beginning with the first quarter 2006 upon approval of the NCRWQCB. The proposed changes to MRP R1-2000-015 are:

- Suspend sampling in wells MW-2, MW-3R, MW-4, MW-5, MW-6, MW-7;
- Annual sampling of wells MW-1, MW-8D and MW-9D corresponding to high stands of groundwater (second quarter);
- Quarterly monitoring of wells MW-10, MW-11, MW-12, MW-13;
- Continued quarterly depth to groundwater monitoring in all wells;
- Analytical suite to consist of pentachlorophenol, trichlorophenol and tetrachlorophenol isomers.

The recommendations for changes to MRP R1-2000-015 proposed herein will be performed upon receipt of NCRWQCB approval.

We look forward to continuing to work with you on this project and trust this provides the information you require at this time. If additional information is required, or if you have any questions, please call SCS at 707.476.1590.

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Distribution List
File No. 01203316.00

Mr. Rich Graham
Schmidbauer Lumber, Inc.
P.O. Box 152
Eureka, CA 95502

Mr. Mark Verhay
Humboldt County Division of Environmental Health
100 H Street, Suite 100
Eureka, CA 95501

Figures

Source of Base Map: DeLorme 2000®

SCS ENGINEERS 3645 WESTWIND BOULEVARD SANTA ROSA, CA 95403 PH. (707) 546–9461 FAX (707) 544–5769	SITE LOCATION MAP SCHMIDBAUER LUMBER COMPANY 1099 WATERFRONT DRIVE EUREKA, CALIFORNIA	APPROX. SCALE IN MILES 0 1 2 FIGURE: 1

PROJ. NO:	TAKEN BY:	FILE:
01203316.00		3316SiteLocMap
DATE:	CREATED BY	APP. BY:
10/20/04	JJM	KWF

WASHINGTON

UNOCAL BULK PLANT

WATERFRONT DRIVE

LUMBER YARD
STORAGE AREA

LOG DECK

MILL #1
(MAIN BUILDING)

APPROXIMATE
PCP (SOURCE)
RELEASE AREA

APPROXIMATE
LOCATION
OF FORMER
WOOD
TREATMENT
AREA

MW-5
MW-12
MW-10
MW-11
MW-13
OFFICE
CHIP
BINS
OPEN
MW-1
MW-6
MW-8D
MW-2
B-108
MW-9D
MW-7
MW-4
MW-3R
MW-3
(Abandoned)

MILL #2

OPEN

LOG DECK

DRIVEWAY

DRY KILN
BUILDING

APPROXIMATE SOIL AND
DRUM STORAGE AREA

RAILROAD AVENUE

WATER

LEGEND

- APPROXIMATE LOCATION OF FORMER WOOD TREATMENT AREA
- APPROXIMATE LOCATION OF PCP (SOURCE) RELEASE AREA
- APPROXIMATE LOCATION OF INACCESSABLE AREAS
- SHALLOW WELL LOCATION
- DEEP WELL LOCATION

GRAPHIC SCALE

100 0 100 200

(IN FEET)

1" = 100 Ft.

N

SCS ENGINEERS

ENVIRONMENTAL CONSULTANTS

3645 WESTWIND BOULEVARD
SANTA ROSA, CALIFORNIA
PH. (707) 546-9461 FAX. (707) 544-5769

PROJ. NO. 1203316.00	DWN. BY: JJM	ACAD FILE: 3316.00_SP_11-05
DATE 11/23/05	CHK. BY: KWF	APP. BY: KWF

SHEET TITLE
SITE PLAN WITH PROPOSED LOCATIONS OF ADDITIONAL SHALLOW MONITORING WELLS

PROJECT TITLE
SCHMIDBAUER LUMBER COMPANY
1099 WATERFRONT DRIVE
EUREKA, CALIFORNIA

SCALE:
1" = 100'

FIGURE NO.
2

WASHINGTON

UNOCAL BULK PLANT

WATERFRONT DRIVE

LUMBER YARD
STORAGE AREA

MILL #1
(MAIN BUILDING)

MILL #2

LOG DECK

OFFICE

CHIP BINS

OPEN

OPEN

(OVERHEAD)

ASPHALT

LOG DECK

DRY KILN
BUILDING

RAILROAD AVENUE

B-1 [16]
B-2
B-3 [4.8]
B-4 [2.7]
B-5 [5.7]
B-6
B-7
B-8
B-9
B-10
B-11
B-12
B-13
B-14
B-15
B-16
B-17
B-18
B-19
B-20
B-21
B-22
B-101
B-102
B-103
B-104
B-105
B-106
B-107
B-108
B-109
MW-1
MW-2
MW-3 (Abandoned)
MW-3R
MW-4
MW-5
MW-6
MW-7
MW-8D [7.6]
MW-9D
MW-10
MW-11
MW-12
MW-13

10

GRAPHIC SCALE
100 0 100 200
(IN FEET)
1" = 100 Ft.

LEGEND

- ISOCONCENTRATION LINE (mg/kg)
- APPROXIMATE LOCATION OF FORMER WOOD TREATMENT AREA
- APPROXIMATE LOCATION OF INACCESSABLE AREAS
- SHALLOW WELL LOCATION
- DEEP WELL LOCATION

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
3645 WESTWIND BOULEVARD
SANTA ROSA, CALIFORNIA
PH. (707) 546-9461 FAX. (707) 544-5769

PROJ. NO.	DWN. BY:	ACAD FILE:
1203316.00	JJM	3316.00_SP_ROF_11-05
DATE	CHK. BY:	APP. BY:
11/28/05	KWF	

SHEET TITLE
SITE PLAN – PCP IN SOIL – 4'-7'

PROJECT TITLE
SCHMIDBAUER LUMBER COMPANY
1099 WATERFRONT DRIVE
EUREKA, CALIFORNIA

SCALE:
1" = 100'

FIGURE NO.
3a

WASHINGTON

UNOCAL BULK PLANT

WATERFRONT DRIVE

LUMBER YARD
STORAGE AREA

MILL #1
(MAIN BUILDING)

LOG DECK

MILL #2

OFFICE

CHIP BINS

OPEN

OPEN (OVERHEAD)

ASPHALT

LOG DECK

DRY KILN BUILDING

RAILROAD AVENUE

EVEWAY

B-1 [10]
B-2
B-3
B-4 [2.6]
B-5 [2.1]
B-6
B-7
B-8
B-9
B-10
B-11
B-12
B-13
B-14
B-15
B-16
B-17
B-18
B-19
B-20
B-21
B-22
B-101
B-102
B-103
B-104
B-105
B-106
B-107
B-108
B-109
MW-1
MW-2
MW-3 (Abandoned)
MW-3R
MW-4
MW-5
MW-6
MW-7
MW-8D [5.3]
MW-9D
MW-10
MW-11
MW-12
MW-13
10
2.0

100 0 100 200

(IN FEET)
1" = 100 Ft.

LEGEND

- ISOCONCENTRATION LINE (mg/kg)
- APPROXIMATE LOCATION OF FORMER WOOD TREATMENT AREA
- APPROXIMATE LOCATION OF INACCESSABLE AREAS
- SHALLOW WELL LOCATION
- DEEP WELL LOCATION

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
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PH. (707) 546-9461 FAX. (707) 544-5769

PROJ. NO.	DWN. BY:	ACAD FILE:
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DATE	CHK. BY:	APP. BY:
11/28/05	KWF	KWF

SHEET TITLE
SITE PLAN – PCP IN SOIL 9'–10'

PROJECT TITLE
SCHMIDBAUER LUMBER COMPANY
1099 WATERFRONT DRIVE
EUREKA, CALIFORNIA

SCALE:
1" = 100'

FIGURE NO.
3b

WASHINGTON

UNOCAL BULK PLANT

WATERFRONT DRIVE

LUMBER YARD
STORAGE AREA

MILL #1
(MAIN BUILDING)

APPROXIMATE
PCP (SOURCE)
RELEASE AREA

LOG DECK

MILL #2

OFFICE

CHIP
BINS

ASPHALT

OPEN

OPEN

(OVERHEAD)

<1.0

[6.0]

B-1 B-2 B-3 B-4 B-5 B-6 B-7 B-8 B-9 B-10 B-11 B-12 B-13 B-14 B-15 B-16 B-17 B-18 B-19 B-20 B-21 B-22 B-101 B-102 B-103 B-104 B-105 B-106 B-107 B-108 B-109

MW-1 MW-2 MW-3R MW-4 MW-5 MW-6 MW-7 MW-8D MW-9D MW-10 MW-11 MW-12 MW-13

MW-3
(Abandoned)

LOG DECK

DRY KILN
BUILDING

RAILROAD AVENUE

IVEWAY

100 0 100 200

(IN FEET)
1" = 100 Ft.

LEGEND

- ISOCONCENTRATION LINE (mg/kg)
- APPROXIMATE LOCATION OF FORMER WOOD TREATMENT AREA
- APPROXIMATE LOCATION OF INACCESSABLE AREAS
- SHALLOW WELL LOCATION
- DEEP WELL LOCATION

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SANTA ROSA, CALIFORNIA
PH. (707) 546-9461 FAX. (707) 544-5769

PROJ. NO.	DWN. BY:	ACAD FILE:
1203316.00	JJM	3316.00_SP_ROF_11-05
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11/28/05	KWF	KWF

SHEET TITLE
SITE PLAN – PCP IN SOIL 10.5'–16'

PROJECT TITLE
SCHMIDBAUER LUMBER COMPANY
1099 WATERFRONT DRIVE
EUREKA, CALIFORNIA

SCALE:
1" = 100'

FIGURE NO.
3c

WASHINGTON

UNOCAL BULK PLANT

WATERFRONT DRIVE

LUMBER YARD
STORAGE AREA

MILL #1
(MAIN BUILDING)

B-21

B-19

B-14

B-16

B-15

B-7

LOG DECK

(<1)
10
100
000

B-103

MW-4

B-105

B-6

MW-5

B-107

B-106

MW-12

B-3

B-9

B-2

OPEN

MW-6

MW-10

MW-1

B-17

B-109

B-1

MW-8D

B-108

B-20

OFFICE

MW-2

MW-11

MW-9D

B-4

MW-13

MW-7

B-104

CHIP
BINS

B-18

B-5

B-102

B-13

OPEN

MW-3R

(OVERHEAD)

MILL #2

B-22

ASPHALT

B-101

B-10

MW-3
(Abandoned)

B-12

B-11

LOG DECK

RIVEWAY

RAILROAD AVENUE

B-8

DRY KILN
BUILDING

100 0 100 200

(IN FEET)
1" = 100 Ft.

LEGEND

- ISOCONCENTRATION LINE (µg/l)
- APPROXIMATE LOCATION OF FORMER WOOD TREATMENT AREA
- APPROXIMATE LOCATION OF INACCESSABLE AREAS
- SHALLOW WELL LOCATION
- DEEP WELL LOCATION

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
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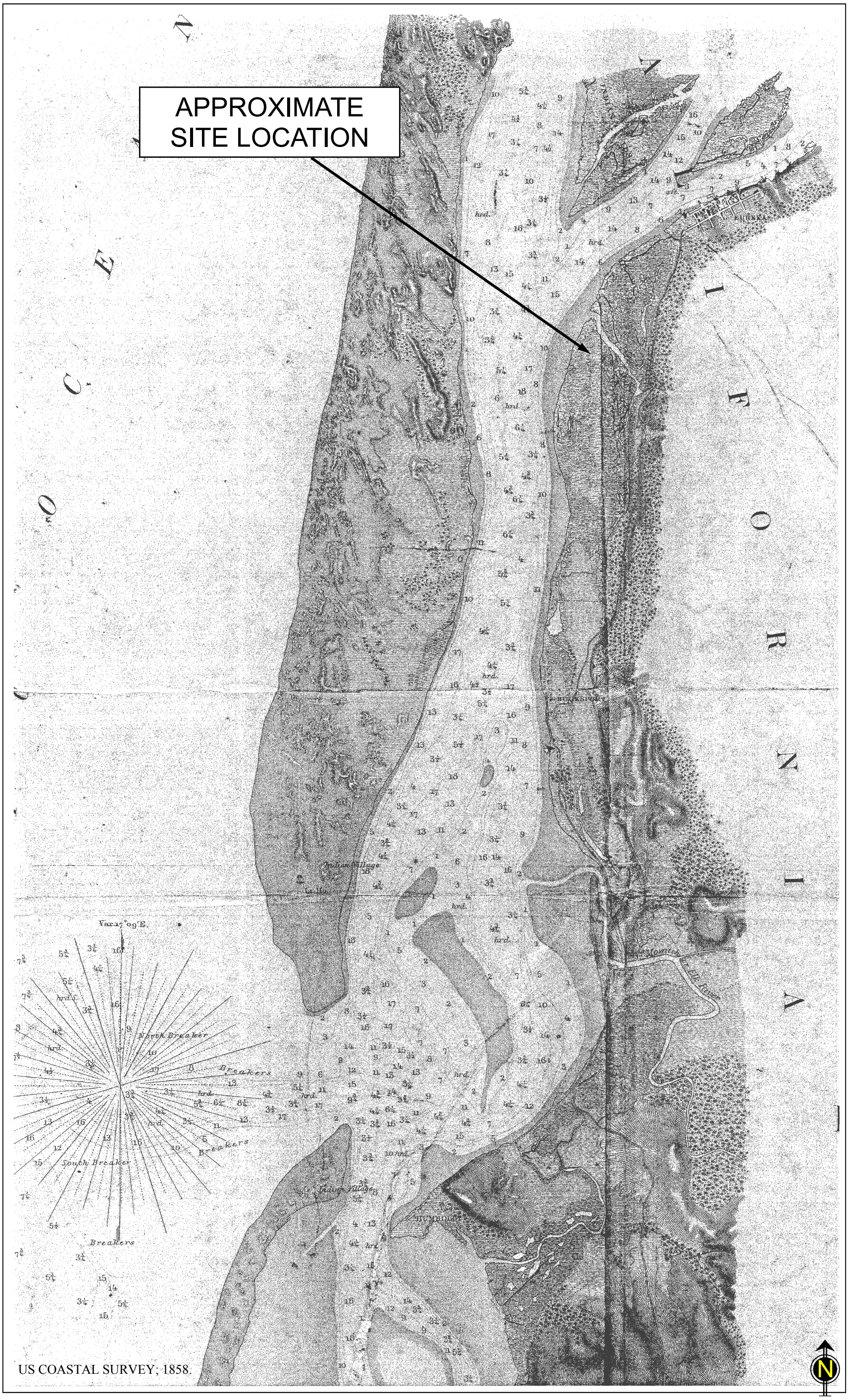
PROJ. NO.	DWN. BY:	ACAD FILE:
1203316.00	JJM	3316.00_SP_ROF_11-05
DATE	CHK. BY:	APP. BY:
11/28/05	KWF	KWF

SHEET TITLE
SITE PLAN – PCP IN GROUNDWATER – 1997

PROJECT TITLE
SCHMIDBAUER LUMBER COMPANY
1099 WATERFRONT DRIVE
EUREKA, CALIFORNIA

SCALE:
1" = 100'

FIGURE NO.
4



SCS ENGINEERS

3645 WESTWIND BOULEVARD
SANTA ROSA, CA 95403
PH. (707) 546–9461 FAX (707) 544–5769

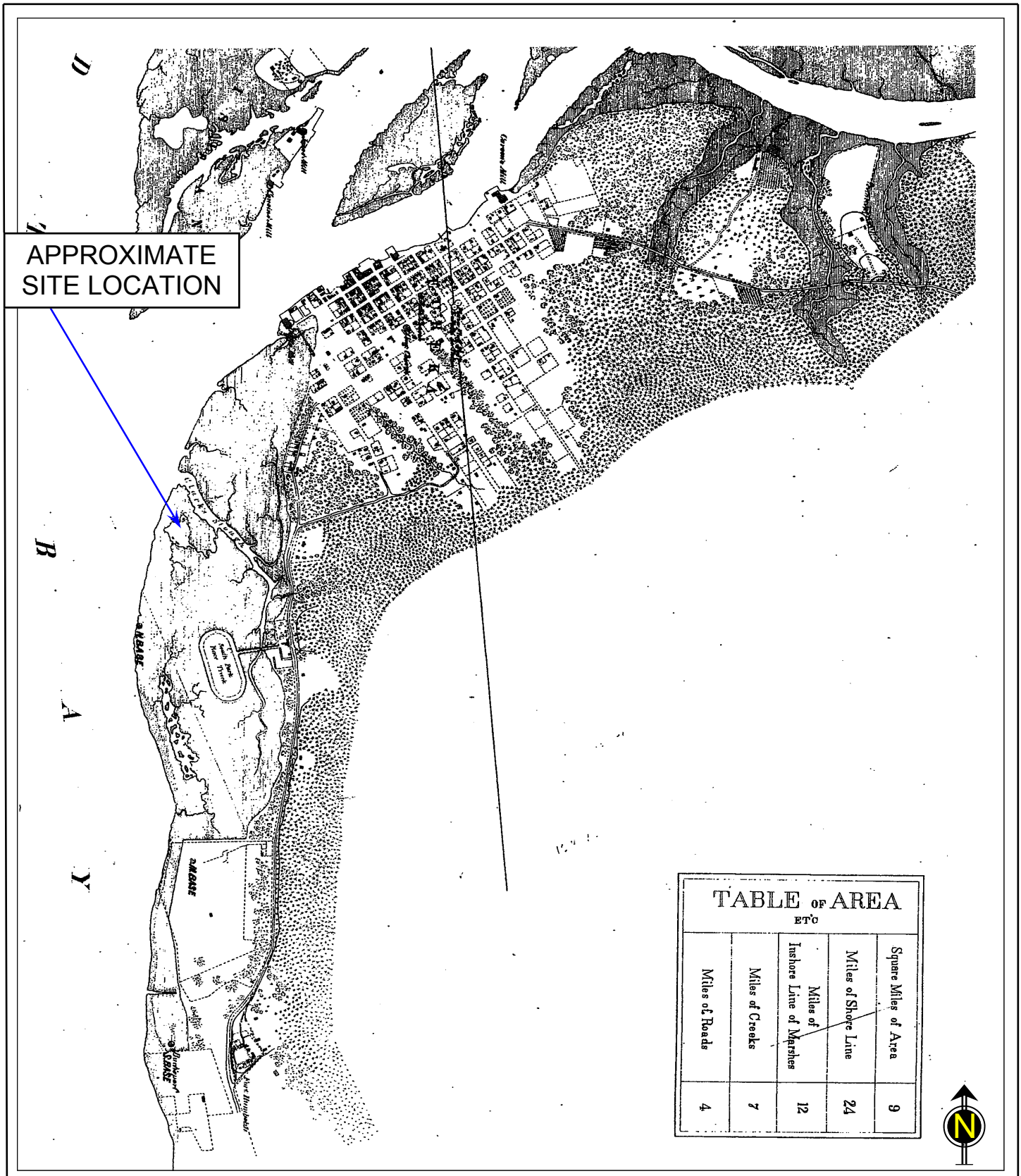
PROJ. NO: 01203316.00	TAKEN BY:	FILE: 3316Site_Topo
DATE: 7/27/05	CREATED BY JJM	APP. BY: KWF

HISTORIC TOPOGRAPHIC MAP 1858

SCHMIDBAUER LUMBER COMPANY
1099 WATERFRONT DRIVE
EUREKA, CALIFORNIA

APPROX. SCALE: *Not to scale*

FIGURE: 6a



US COASTAL 1870; 1:24,000

SCS ENGINEERS

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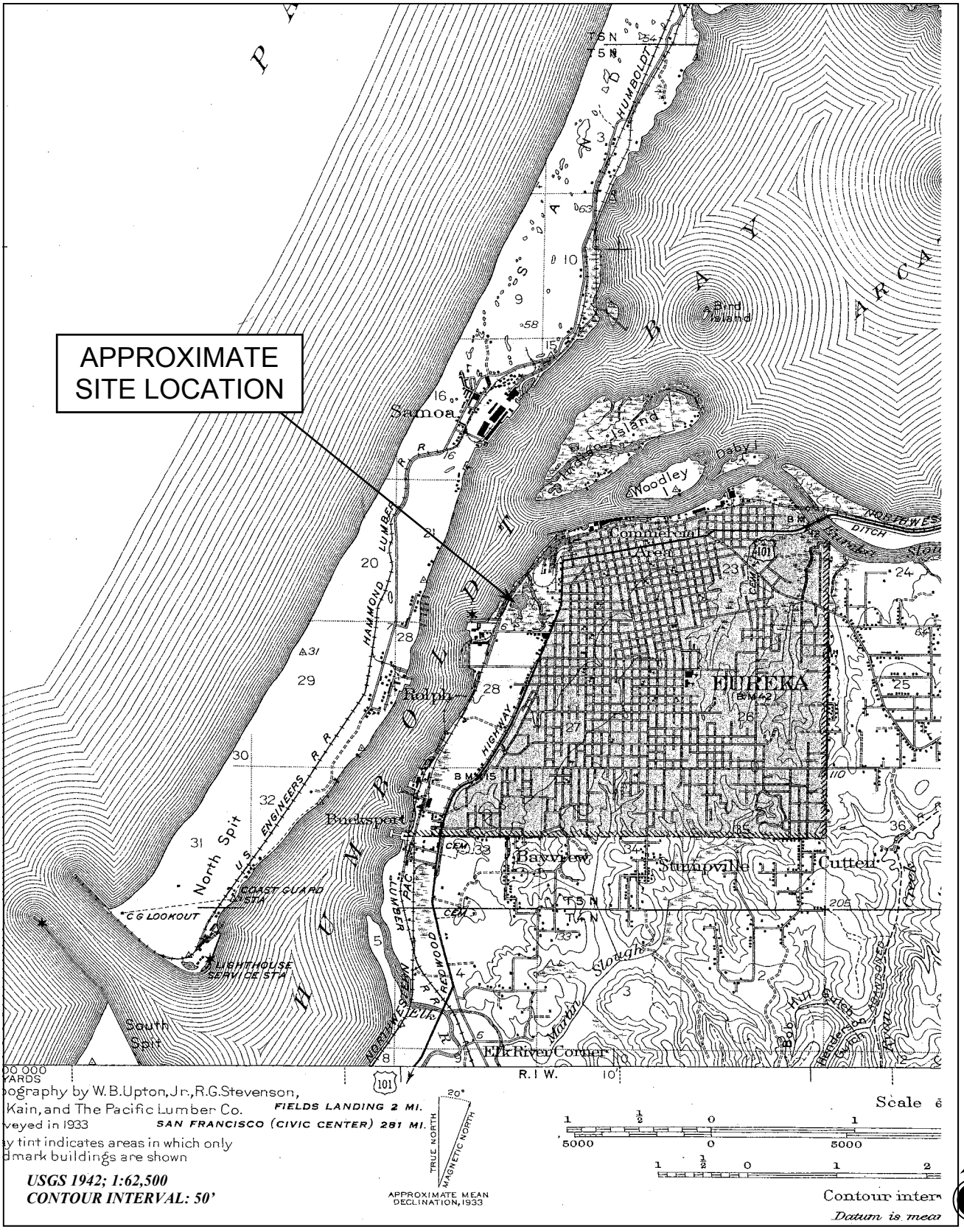
PROJ. NO:	TAKEN BY:	FILE:
01203316.00		3316Site_Topo
DATE:	CREATED BY	APP. BY:
7/27/05	JJM	KWF

HISTORIC TOPOGRAPHIC MAP - 1870

SCHMIDBAUER LUMBER COMPANY
1099 WATERFRONT DRIVE
EUREKA, CALIFORNIA

APPROX. SCALE
Not to Scale

FIGURE:
6b



ography by W.B.Upton, Jr., R.G.Stevenson, Kain, and The Pacific Lumber Co.
veyed in 1933
y tint indicates areas in which only dmark buildings are shown

USGS 1942; 1:62,500
CONTOUR INTERVAL: 50'

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PROJ. NO: 01203316.00	TAKEN BY:	FILE: 3316Site_Topo
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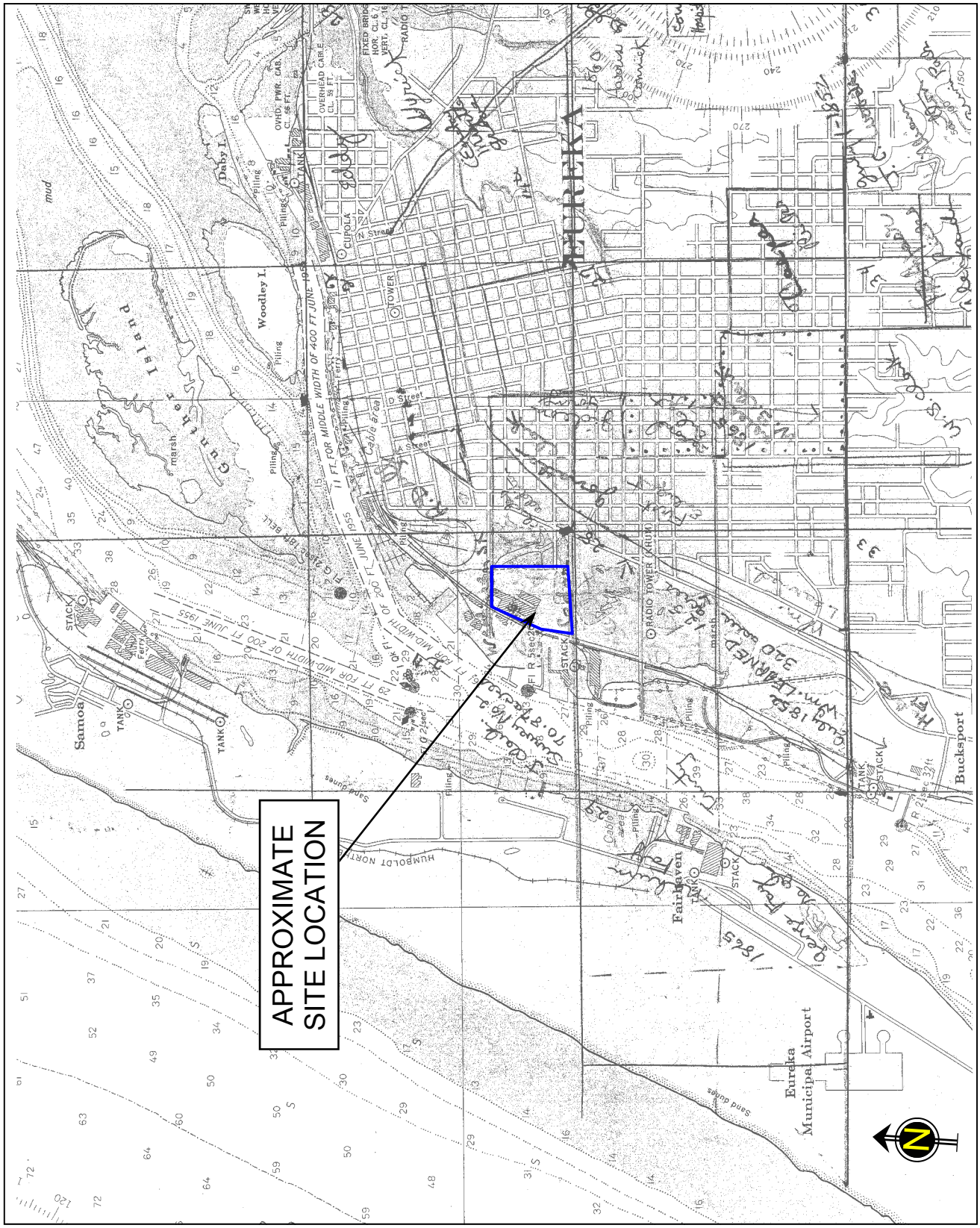
HISTORIC TOPOGRAPHIC MAP - 1942

SCHMIDBAUER LUMBER COMPANY
1099 WATERFRONT DRIVE
EUREKA, CALIFORNIA

APPROX. SCALE
IN MILES
0 1 2

FIGURE:
6c



US COAST AND GEODETIC SURVEY, HUMBOLDT BAY; 1954; REV.1956.

SCS ENGINEERS

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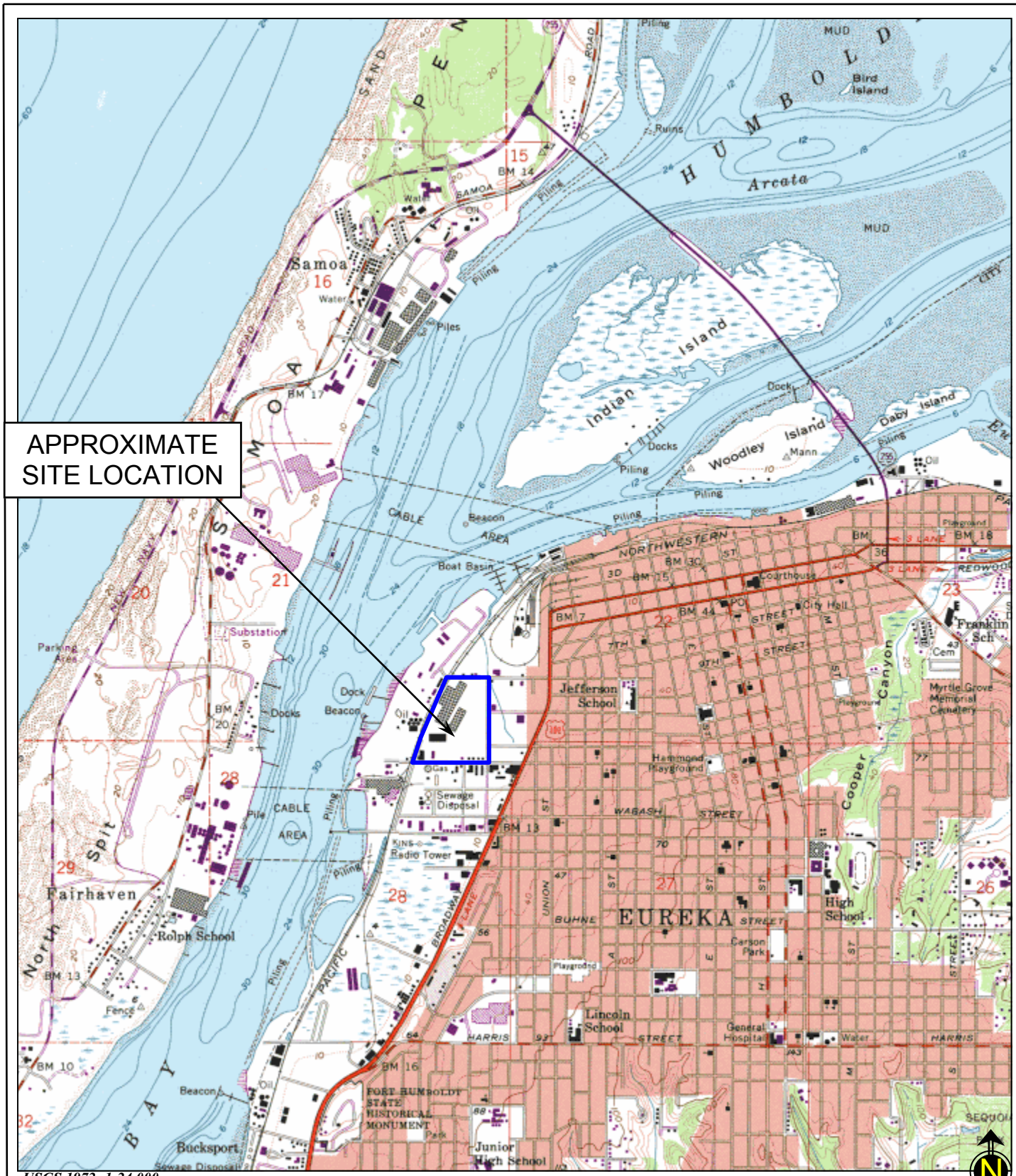
PROJ. NO:	TAKEN BY:	FILE:
01203316.00		3316Site_Topo
DATE:	CREATED BY	APP. BY:
7/27/05	JJM	KWF

HISTORIC TOPOGRAPHIC MAP - 1956

SCHMIDBAUER LUMBER COMPANY
1099 WATERFRONT DRIVE
EUREKA, CALIFORNIA

APPROX. SCALE
Not to Scale

FIGURE:
6d



USGS 1972; 1:24,000
CONTOUR INTERVAL: 10'

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PROJ. NO:	TAKEN BY:	FILE:
01203316.00		3316Site_Topo
DATE:	**CREATED BY**	**APP. BY:**
7/27/05	JJM	KWF

HISTORIC TOPOGRAPHIC MAP - 1972

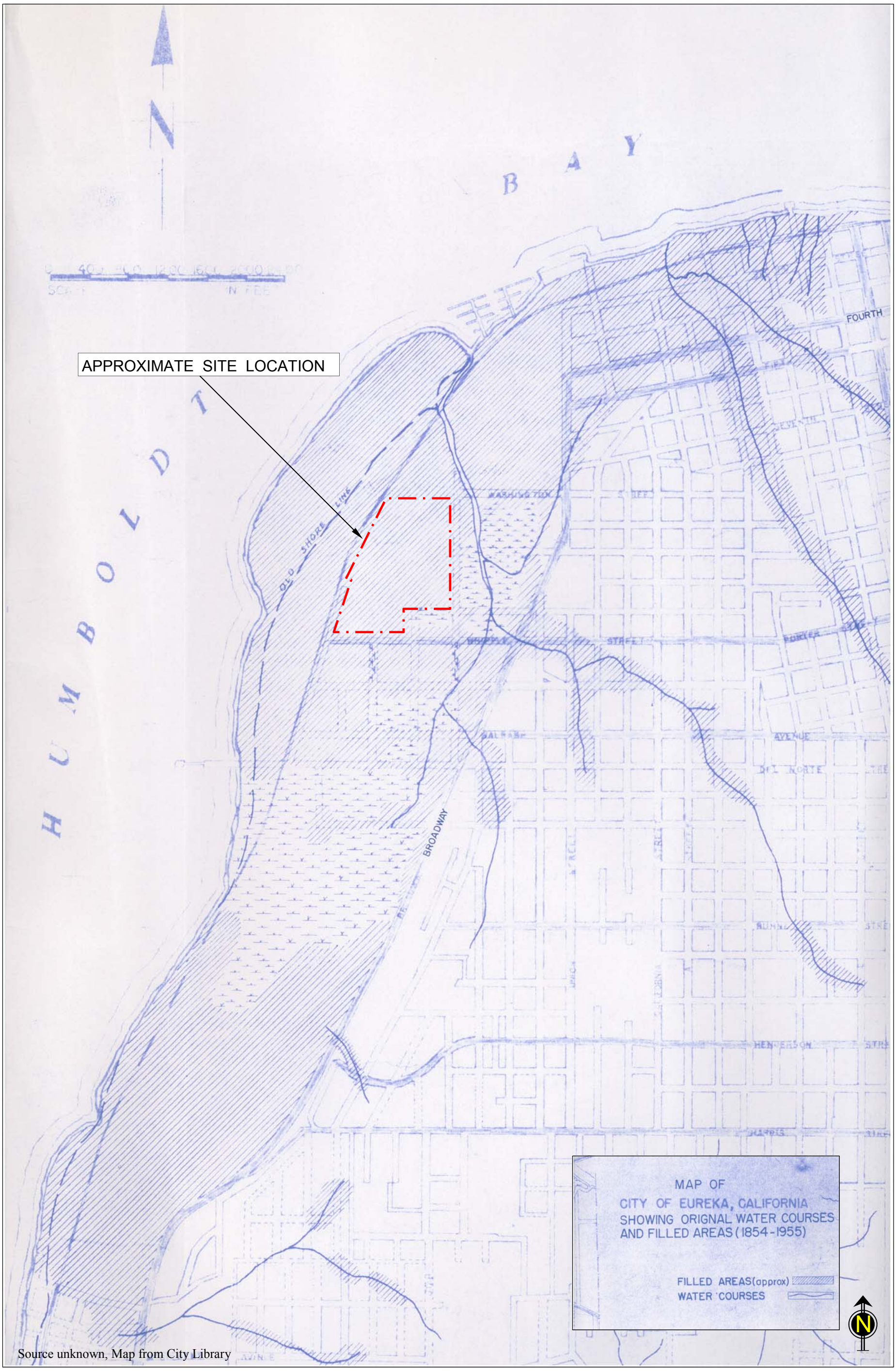
SCHMIDBAUER LUMBER COMPANY
1099 WATERFRONT DRIVE
EUREKA, CALIFORNIA

APPROX. SCALE

ENLARGED TO SHOW DETAIL

FIGURE:

6e



Source unknown, Map from City Library

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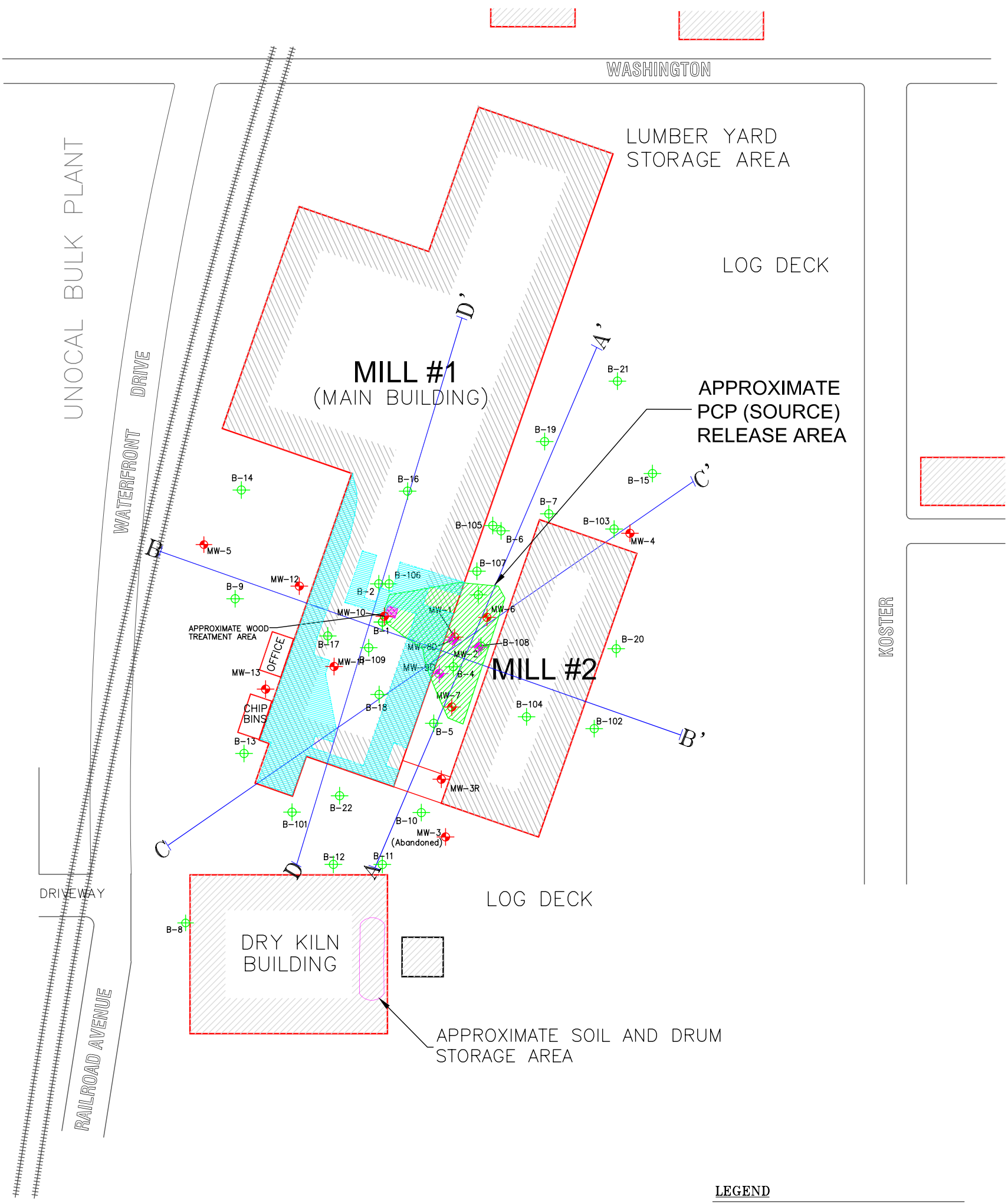
PROJ. NO:	TAKEN BY:	FILE:
01203316.00		_SiteFillMap
DATE:	**CREATED BY**	**APP. BY:**
11-28-05	JJM	KWF

MAP OF CITY OF EUREKA, CALIFORNIA
SHOWING ORIGINAL WATER COURSES AND FILL AREAS (1854-1955)

SHMIDBAUER LUMBER COMPANY
1099 WATERFRONT DRIVE
EUREKA, CALIFORNIA

APPROX. SCALE: *Not to scale*

FIGURE: 7



LEGEND

- APPROXIMATE LOCATION OF PCP (SOURCE) RELEASE AREA
- A–A' APPROXIMATE LOCATION OF GEOLOGIC CROSS SECTION
- SHALLOW WELL LOCATION
- DEEP WELL LOCATION
- BORING LOCATION

APPROXIMATE SCALE IN FEET

150 0 150

N

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PROJ. NO.	DWN. BY:	ACAD FILE:
0120316.00	JJM	
DATE	CHK. BY:	APP. BY:
1/27/06	KWF	KWF

SHEET TITLE

SITE PLAN WITH GEOLOGIC SECTIONS

PROJECT TITLE

SCHMIDBAUER LUMBER COMPANY
1099 WATERFRONT DRIVE
EUREKA, CALIFORNIA

SCALE: 1" = 150'

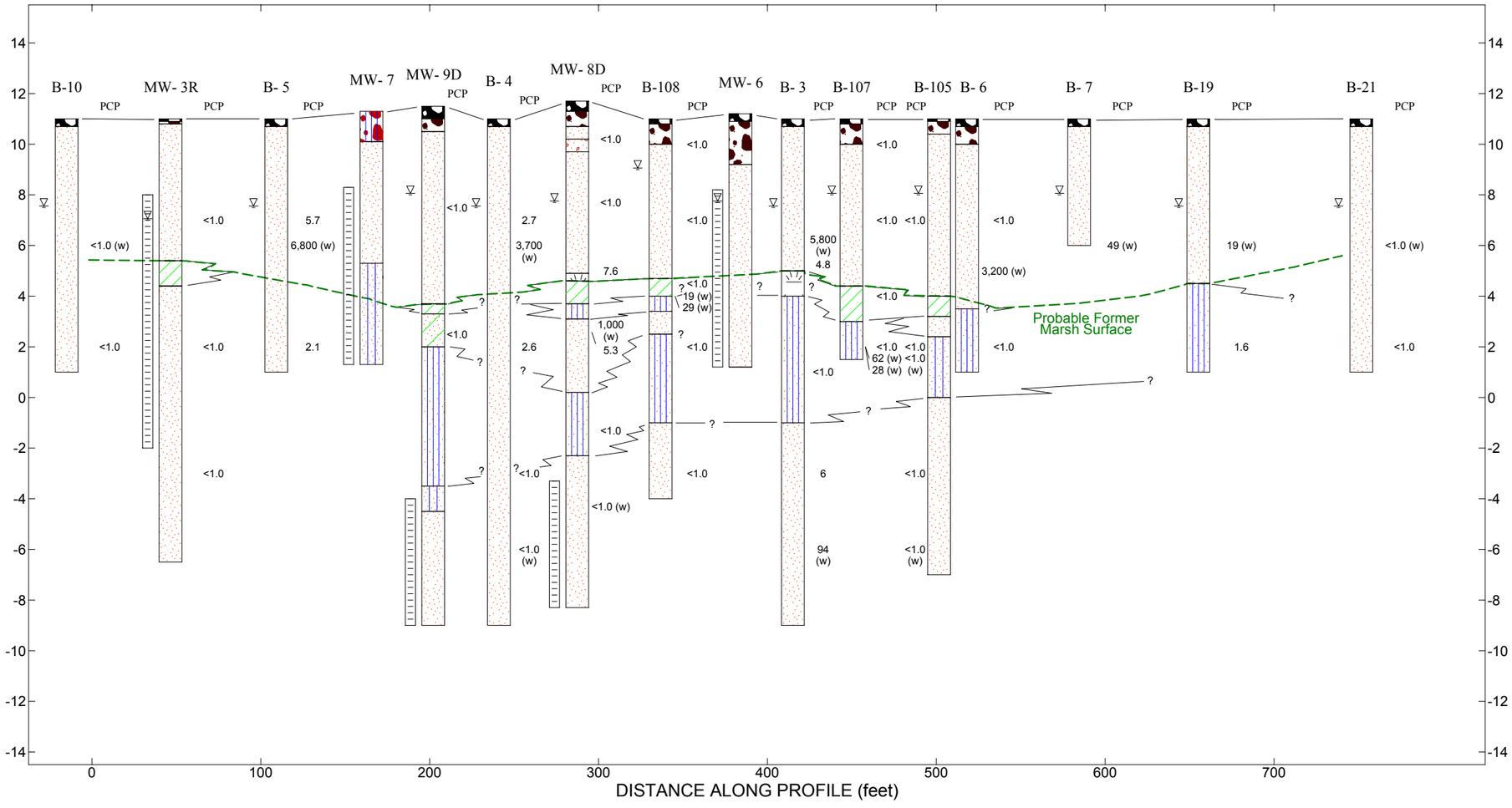
FIGURE NO. 8a

◄ South

A

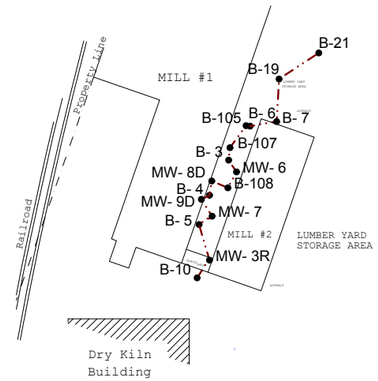
North ►

A'



Explanation

- SILTY GRAVEL (GM)
- CLAYEY SAND (SC)
- SAND & GRAVEL - (base rock fill)
- SAND (SW), Well-graded
- SILTY SAND (SM)
- Asphalt
- SAND (SP), Poorly-graded
- CLAY (CL), Low Plasticity
- SAND with Silt (SP-SM), Poorly-graded
- Peat



LEGEND:

- MW- 3R — Boring I.D.
- Analyte
- Screened interval of wells
- Water Level At Time of Drilling
- Borehole Lithology
- N/A — Not Analyzed
- <0.005 — Analytical result

PCP	Concentration of Pentachlorophenol reported from laboratory analysis by EPA Method 8040.
(w)	Aqueous samples (initial drilling results)
<	Less-than numerical value of the detection limit.
mg/kg	Milligrams per kilogram (soil samples)
ug/L	Micrograms per Liter (aqueous samples)

Vertical Exaggeration: 15x

NO.	DATE	REVISIONS	DRN	CHK	DGS	ENG GS	CHF ENG	PROJ ENG
	10-19-04	ISSUED FOR REVIEW	SK					

SCS ENGINEERS

Schmidbauer Lumber
1099 Waterfront Drive
Eureka, California

Geologic Section A - A'

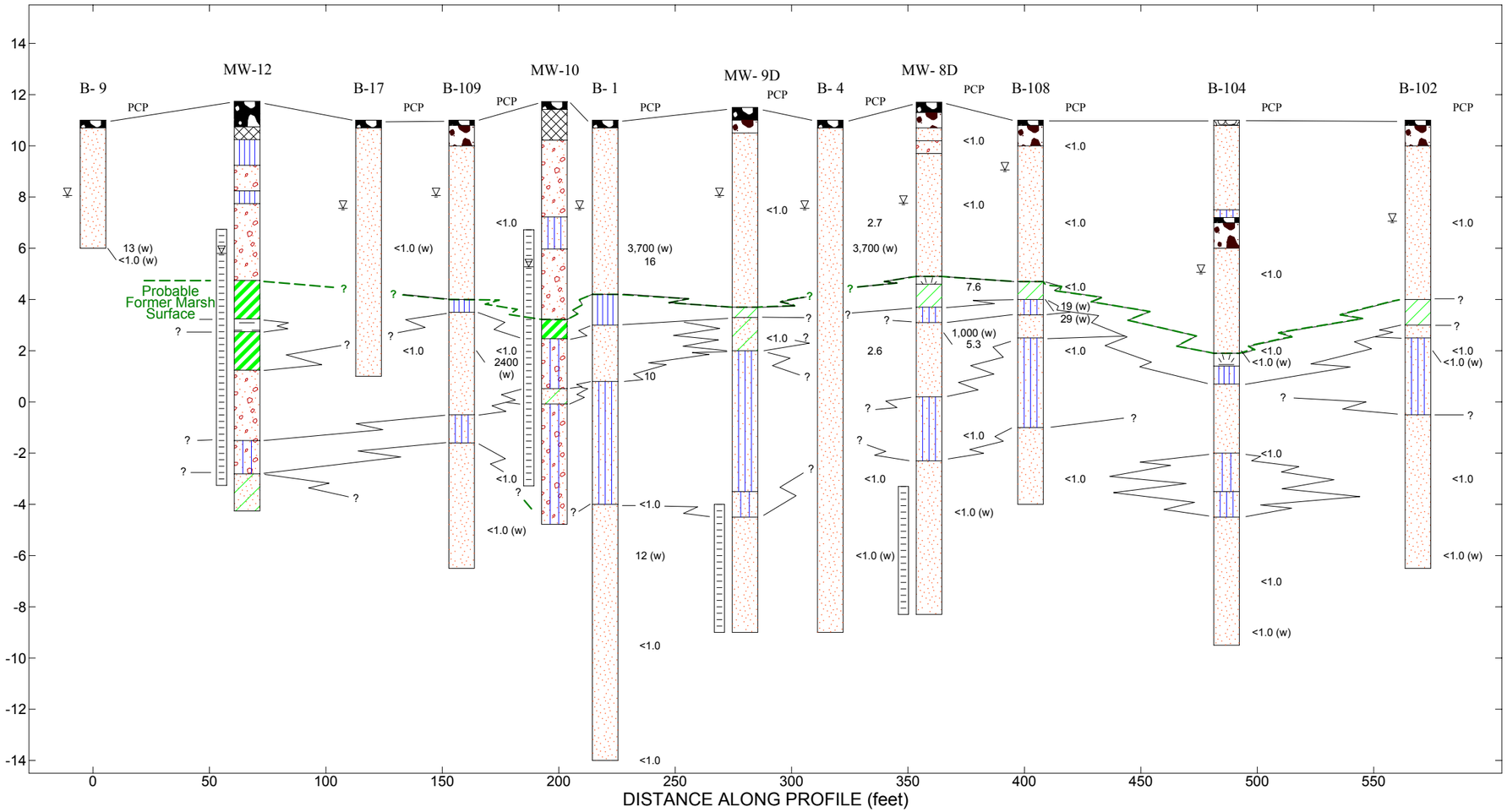
SCALE	JOB NO.	FIGURE NO.	REV.
1" = 75.0'	01203316.00	8b	1

◄ West

B

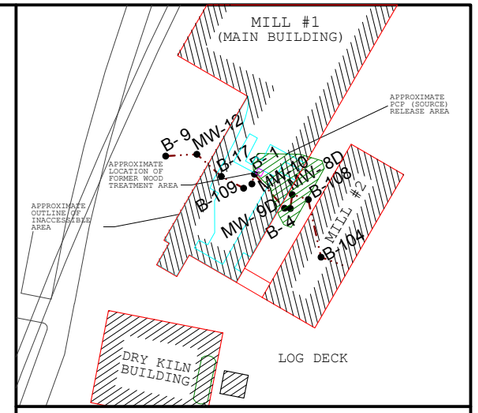
East ►

B'



Explanation

- SAND (SW), Well-graded
- SAND with Silt (SW-SM), Well-graded
- SAND (SP), Poorly-graded
- SAND with Silt (SP-SM), Poorly-graded
- CLAYEY SAND (SC)
- SILTY SAND (SM)
- SILT (ML)
- SILT with Sand (ML)
- CLAY (CL), Low Plasticity
- CLAY (CH), High Plasticity
- Peat
- Organic silt or clay, low plasticity
- Asphalt
- Concrete
- SAND & GRAVEL - (base rock fill)
- Fill (made ground)



LEGEND:

MW- 3R — Boring I.D.

Analyte

Screened interval

Water Level At Time of Drilling

Borehole Lithology

N/A — Not Analyzed

<0.005 — Analytical result

PCP	Concentration of Pentachlorophenol reported from laboratory analysis by EPA Method 8040.
(w)	Aqueous samples (initial drilling results)
<	Less-than numerical value of the detection limit.
mg/kg	Milligrams per kilogram (soil samples)
ug/L	Micrograms per Liter (aqueous samples)

Vertical Exaggeration: 11x

NO.	DATE	REVISIONS	DRN	CHK	DGS	ENG GS	CHF ENG	PROJ ENG
1	1-18-06	ISSUED FOR REVIEW	SK					

SCS ENGINEERS

Schmidbauer Lumber
1099 Waterfront Drive
Eureka, California

Geologic Section B - B'

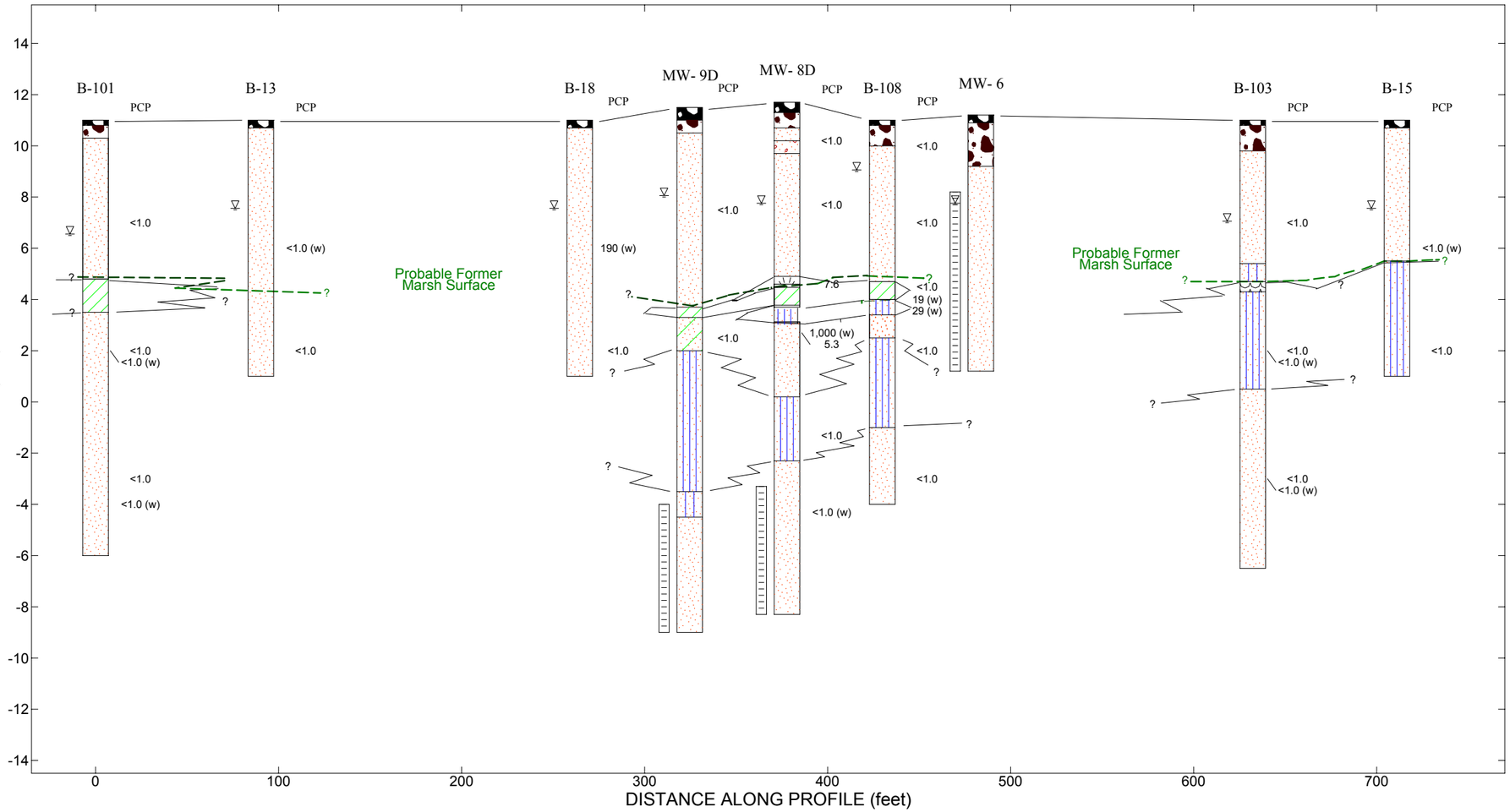
SCALE	JOB NO.	FIGURE NO.	REV.
1" = 55.0'	01203316.00	8C	2

◄ Southwest

C

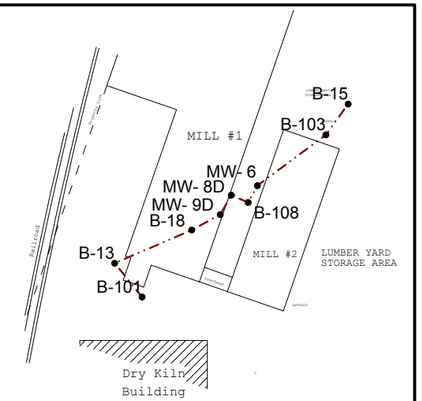
Northeast ►

C'

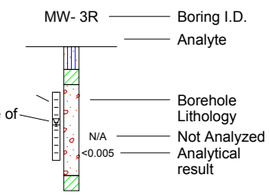


Explanation

- SAND (SW), Well-graded
- SAND (SP), Poorly-graded
- SAND with Silt (SP-SM), Poorly-graded
- CLAYEY SAND (SC)
- SILTY SAND (SM)
- CLAY (CL), Low Plasticity
- Peat
- Organic silt or clay, high plasticity
- Asphalt
- SAND & GRAVEL - (base rock fill)



LEGEND:



PCP	Concentration of Pentachlorophenol reported from laboratory analysis by EPA Method 8040.
(w)	Aqueous samples (initial drilling results)
<	Less-than numerical value of the detection limit.
mg/kg	Milligrams per kilogram (soil samples)
ug/L	Micrograms per Liter (aqueous samples)

Vertical Exaggeration: 14x

NO.	DATE	REVISIONS	DRN	CHK	DGS	ENG GS	CHF ENG	PROJ ENG
1	10-19-04	ISSUED FOR REVIEW	SK					

SCS ENGINEERS

Schmidbauer Lumber
1099 Waterfront Drive
Eureka, California

Geologic Section C - C'

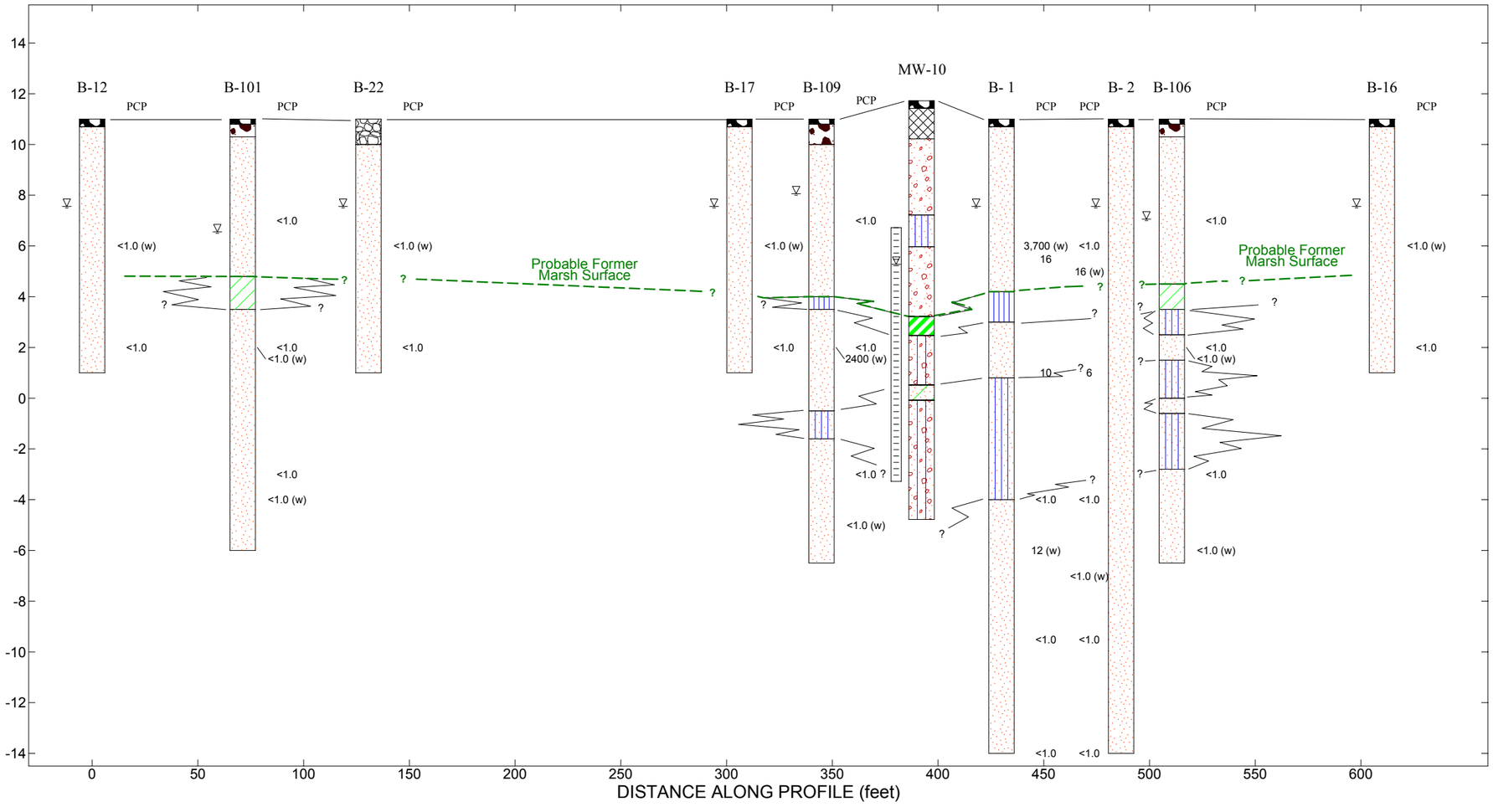
SCALE	JOB NO.	FIGURE NO.	REV.
1" = 70.0'	01203316.00	8d	1

◄ South

D

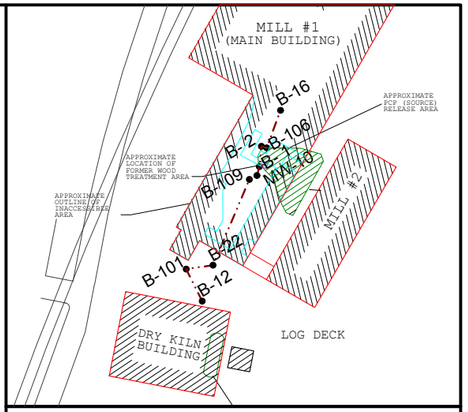
North ►

D'

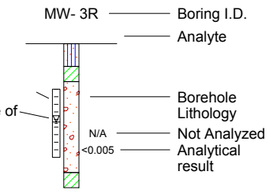


Explanation

- SAND (SW), Well-graded
- SAND with Silt (SW-SM), Well-graded
- SAND (SP), Poorly-graded
- CLAYEY SAND (SC)
- SILTY SAND (SM)
- SILT (ML)
- CLAY (CL), Low Plasticity
- CLAY (CH), High Plasticity
- Asphalt
- Concrete
- SAND & GRAVEL - (base rock fill)
- Fill (made ground)



LEGEND:



PCP	Concentration of Pentachlorophenol reported from laboratory analysis by EPA Method 8040.
(w)	Aqueous samples (initial drilling results)
<	Less-than numerical value of the detection limit.
mg/kg	Milligrams per kilogram (soil samples)
ug/L	Micrograms per Liter (aqueous samples)

Vertical Exaggeration: 12x

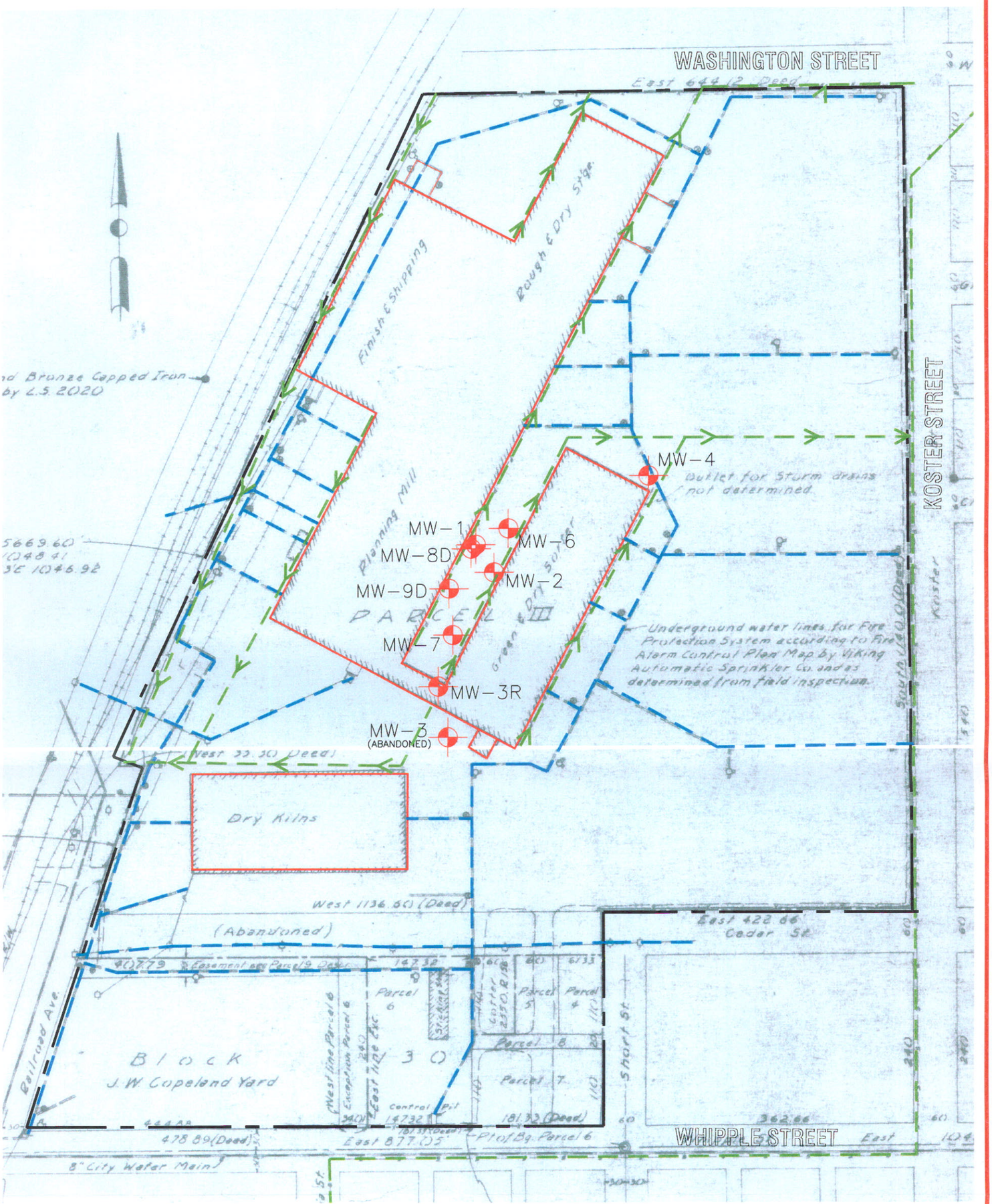
NO.	DATE	REVISIONS	DRN	CHK	DGS	ENG GS	CHF ENG	PROJ ENG
1	1-18-06	ISSUED FOR REVIEW	SK					

SCS ENGINEERS

Schmidbauer Lumber
1099 Waterfront Drive
Eureka, California

Geologic Section D - D'

SCALE	JOB NO.	FIGURE NO.	REV.
1" = 60.0'	01203316.00	8E	2



GRAPHIC SCALE

150 0 150 300

(IN FEET)

1" = 150 Ft.

LEGEND

- APPROXIMATE PROPERTY LINE
- FIRE PROTECTION WATER LINE
- STORM DRAIN LINE
- MONITORING WELL LOCATION

SCS ENGINEERS

ENVIRONMENTAL CONSULTANTS

3645 WESTWIND BOULEVARD
SANTA ROSA, CALIFORNIA
PH. (707) 546-9461 FAX. (707) 544-5769

PROJ. NO. 1203316.00	DWN. BY: JJM	ACAD FILE: 3316.00_Site_Fire-Storm	
DATE 7/27/05	CHK. BY: KWF	APP. BY: KWF	

SHEET TITLE: SITE PLAN WITH STORM DRAINS AND WATERLINES

PROJECT TITLE: SCHMIDBAUER LUMBER COMPANY
1099 WATERFRONT DRIVE
EUREKA, CALIFORNIA

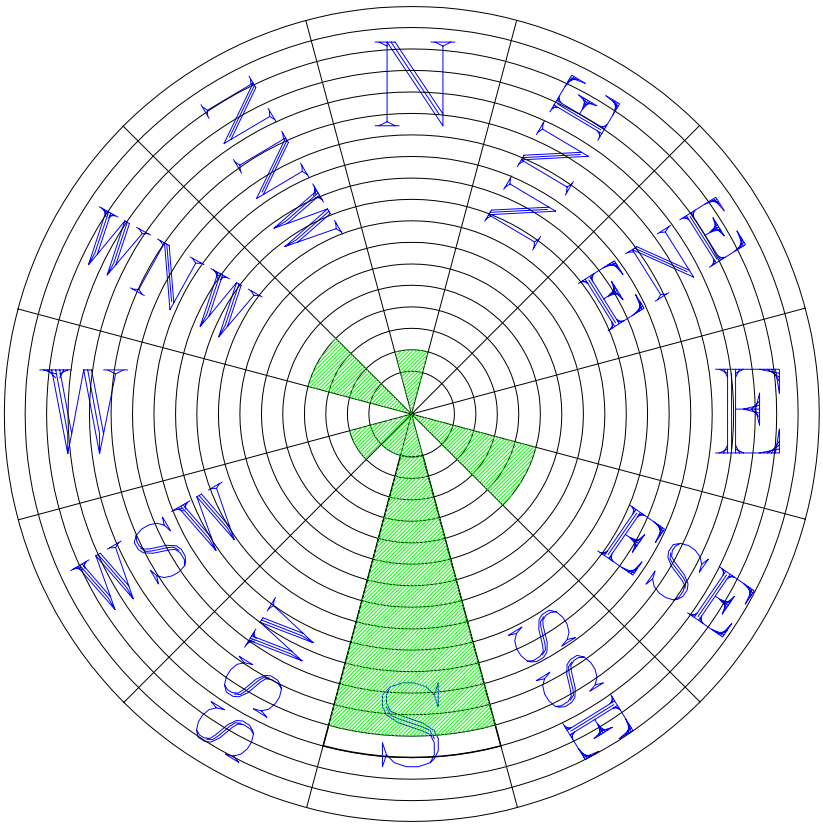
SCALE: 1" = 150' +/-

FIGURE NO. 9

Charts

ALL SHALLOW WELLS

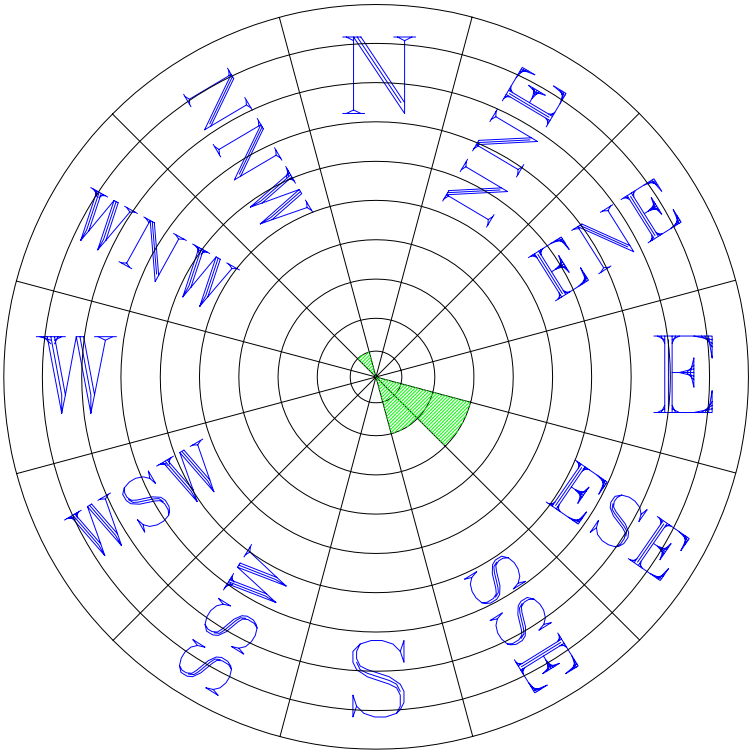
(MW-1, MW-3 (ABANDONED), MW-3R, MW-4,
MW-5, MW-6 & MW-7)



SCS ENGINEERS ENVIRONMENTAL CONSULTANTS 3645 WESTWIND BOULEVARD SANTA ROSA, CALIFORNIA 94503 PH. (707) 946-5461 FAX. (707) 544-5769	SHEET TITLE: WINDROSE DIAGRAM: GROUNDWATER FLOW DIRECTIONS 3/99 THROUGH 3/05 ALL SHALLOW MONITORING WELLS	SCALE: *(CHART-No Scale)*
PROJ. NO. 01203316.00 / DWN. BY: JJM / ACAD FILE: 1203316.00_Windrose DATE 7/27/05 / CHK. BY: KWF / APP. BY:	PROJECT TITLE: SCHMIDBAUER LUMBER COMPANY 1099 WATERFRONT DRIVE EUREKA, CALIFORNIA	CHART: 1

WINDROSE DIAGRAM

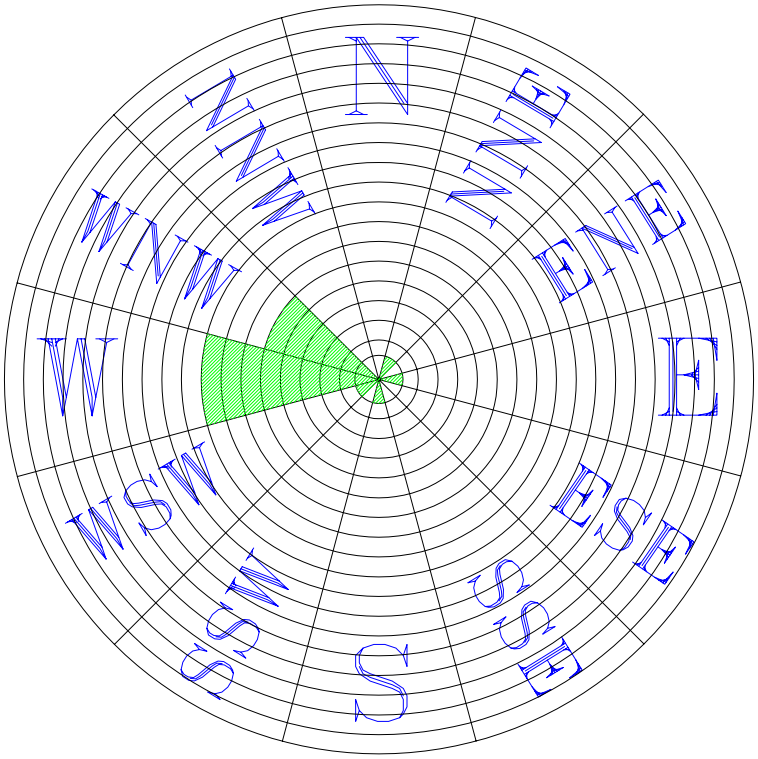
DEEP WELLS: MW-2, MW-8D AND MW-9D



SCS ENGINEERS ENVIRONMENTAL CONSULTANTS 3645 WESTWIND BOULEVARD SANTA ROSA, CALIFORNIA 94503 PH. (707) 946-5461 FAX. (707) 544-5769	SHEET TITLE: WINDROSE DIAGRAM: GROUNDWATER FLOW DIRECTIONS 3/99 THROUGH 9/05 – DEEP MONITOR WELLS	SCALE: *(CHART-No Scale)*
PROJ. NO. 01203316.00 / DWN. BY: JJM / ACAD FILE: 1203316.00_Windrose DATE 10/06/05 / CHK. BY: KWF / APP. BY:	PROJECT TITLE: SCHMIDBAUER LUMBER COMPANY 1099 WATERFRONT DRIVE EUREKA, CALIFORNIA	CHART: **2**

WINDROSE DIAGRAM

SHALLOW WELLS: MW-1 , MW-6 AND MW-7



NOTES:

6/05 event not plotted, well MW-6 inaccessable.

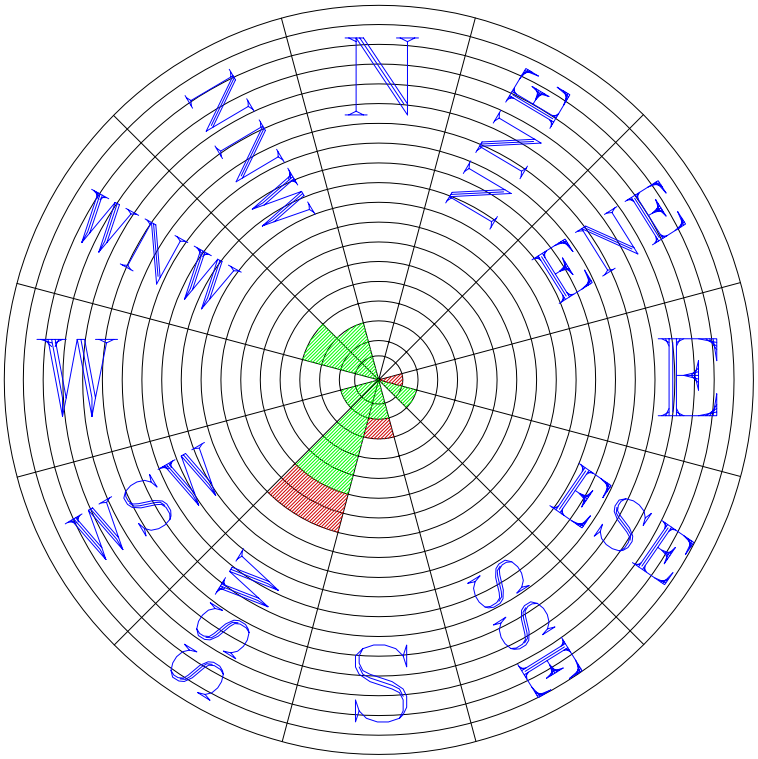
SCS ENGINEERS ENVIRONMENTAL CONSULTANTS 3645 WESTWIND BOULEVARD SANTA ROSA, CALIFORNIA 94503 PH. (707) 946-5461 FAX. (707) 544-5769			SHEET TITLE: WINDROSE DIAGRAM: GROUNDWATER FLOW DIRECTIONS 5/01 THROUGH 9/05 – SHALLOW MONITOR WELLS
PROJ. NO. 01203316.00	DWN. BY: JJM	ACAD FILE: 1203316.00_Windrose_6-05	PROJECT TITLE: SCHMIDBAUER LUMBER COMPANY 1099 WATERFRONT DRIVE EUREKA, CALIFORNIA
DATE 10/06/05	CHK. BY: KWF	APP. BY:	

SCALE: *(CHART-No Scale)*

CHART: 3

WINDROSE DIAGRAM

SHALLOW WELLS: MW-3(1), MW-3R(1), MW-4 AND MW-5



NOTES:

(1) Well MW-3 abandoned and replaced with well MW-3R. Groundwater flows resolved with MW-3R are illustrated in red.

6/00, 9/00, 8/02 events not plotted, well MW-3 inaccessable.

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
3645 WESTWIND BOULEVARD
SANTA ROSA, CALIFORNIA 94503
PH. (707) 946-5461 FAX. (707) 544-5769

PROJ. NO.	DWN. BY:	ACAD FILE:
01203316.00	JJM	1203316.00_Windrose_6-05
DATE	CHK. BY:	APP. BY:
10/06/05	KWF	KWF

SHEET TITLE: WINDROSE DIAGRAM: GROUNDWATER FLOW DIRECTIONS 3/99 THROUGH 9/05 – SHALLOW MONITOR WELLS

PROJECT TITLE: SCHMIDBAUER LUMBER COMPANY
1099 WATERFRONT DRIVE
EUREKA, CALIFORNIA

SCALE: *(CHART-No Scale)*

CHART: 4

Tables

Table 1: Groundwater Analytical Results - MW-1
1099 Waterfront Drive, Eureka, California

Well ID Number	Date	Top of Casing Elevation (ft>msl)	Depth to Groundwater (feet)	Water Level Elevation (feet > msl)	2,4,6-Trichlorophenol (µg/l)	2,3,5,6-Tetrachlorophenol (µg/l)	2,3,4,6-Tetrachlorophenol (µg/l)	2,3,4,5-Tetrachlorophenol (µg/l)	Pentachlorophenol (µg/l)
MW-1	03/27/99	11.17	2.66	8.51	**3**	**38**	**3,000**	<90	**5,500**
	06/21/99	11.17	3.05	8.12	<10	**95**	**6,100**	**130**	**8,000**
	09/27/99	11.17	3.59	7.58	**9.3**	<100	**9,900**	<100	**9,800**
	12/22/99	11.17	3.12	8.05	<10	**200**	**3,700**	<10	**5,500**
	03/16/00	11.17	2.81	8.36	<1.0	<1.0	**730**	<1.0	**2,500**
	06/09/00	11.17	3.18	7.99	**1**	<1.0	**900**	<1.0	**3,300**
	09/12/00	11.17	3.53	7.64	<1.0	**18**	**300**	**22**	**1,100**
	12/13/00	11.17	3.22	7.95	<1.0	<1.0	**470**	<1.0	**1,600**
	02/06/01	11.17	3.15	8.02	**15** [1]	**28** [2]		<1.0	**73**
	05/16/01	11.17	3.21	7.96	<1.0	<1.0	<1.0	<1.0	**55**
	08/21/01	11.17	3.66	7.51	<1.0	<1.0	**32**	**1.4**	**100**
	11/13/01	11.17	3.46	7.71	NR	**8.1** [2]		**1.3**	**16**
	02/12/02	11.17	2.92	8.25	<1.0	<1.0	<1.0	<1.0	<1.0
	05/14/02	11.17	3.04	8.13	<1.0	<1.0	<1.0	<1.0	**1.4**
	08/22/02	11.17	3.48	7.69	<1.0	<1.0	<1.0	<1.0	<1.0
	11/20/02	11.17	3.48	7.69	<1.0	<1.0	<1.0	<1.0	<1.0
	02/26/03	11.17	2.81	8.36	<1.0	<1.0	<1.0	<1.0	<1.0
	05/09/03	11.17	2.67	8.5	<1.0	<1.0	<1.0	<1.0	<1.0
	08/19/03	11.17	3.16	8.01	<1.0	<1.0	<1.0	<1.0	<1.0
	10/28/03	11.17	3.24	7.93	<1.0	<1.0	<1.0	<1.0	<1.0
	11/20/03	11.17	3.06	8.11	<1.0	<1.0	<1.0	<1.0	<1.0
	02/05/04	11.17	2.68	8.49	<1.0	<1.0	<1.0	<1.0	<1.0
	05/24/04	11.17	2.92	8.25	<1.0	<1.0	<1.0	<1.0	<1.0
	09/27/04	11.17	3.27	7.90	<1.0	<1.0	<1.0	<1.0	<1.0
	12/02/04	11.17	3.22	7.95	<1.0	<1.0	<1.0	<1.0	<1.0
	03/09/04	11.17	3.57	7.60	<1.0	<1.0	<1.0	<1.0	<1.0
	06/16/05	11.17	3.11	8.06	<1.0	<1.0	<1.0	<1.0	<1.0

Table 2: Groundwater Analytical Results - MW-2
1099 Waterfront Drive, Eureka, California

Well ID Number	Date	Top of Casing Elevation (ft>msl)	Depth to Groundwater (feet)	Water Level Elevation (feet > msl)	2,4,6-TCP (µg/l)	2,3,5,6-Tetrachlorophenol (µg/l)	2,3,4,6-Tetrachlorophenol (µg/l)	2,3,4,5-Tetrachlorophenol (µg/l)	Pentachlorophenol (µg/l)
MW-2	03/27/99	10.53	6.05	4.48	<0.1	**0.88**	**16**	<0.1	**35**
	06/21/99	10.53	6.64	3.89	<0.1	**0.97**	**24**	**0.66**	**62**
	09/27/99	10.53	7.61	2.92	<1.0	<1.0	<1.0	<1.0	<1.0
	12/22/99	10.53	5.89	4.64	<1.0	<1.0	**3.8**	<1.0	**16**
	03/16/00	10.53	6.05	4.48	<1.0	<1.0	<1.0	<1.0	<1.0
	06/08/00	10.53	7.49	3.04	<1.0	<1.0	<1.0	<1.0	<1.0
	09/12/00	10.53	Not sampled [7]						
	12/13/00	10.53	6.36	4.17	<1.0	<1.0	<1.0	<1.0	<1.0
	02/06/01	10.53	6.25	4.28	<1.0 [1]	<1.0 [2]		<1.0	<1.0
	05/16/01	10.53	6.60	3.93	<1.0	<1.0	<1.0	<1.0	<1.0
	8/21/01 [3]	10.53	7.52	3.01	<1.0	<1.0	<1.0	<1.0	<1.0
	11/13/01	10.53	6.01	4.52	NA	NA	NA	<1.0	<1.0
	02/12/02	10.53	6.12	4.41	NA	NA	NA	NA	NA
	05/14/02	10.53	7.53	3.00	<1.0	<1.0	<1.0	<1.0	<1.0
	08/22/02	10.53	Not sampled [7]						
	11/20/02	10.53	6.13	4.40	<1.0	<1.0	<1.0	<1.0	<1.0
	02/26/03	10.53	5.30	5.23	NA	NA	NA	NA	NA
	05/09/03	10.53	6.07	4.46	<1.0	<1.0	<1.0	<1.0	<1.0
	08/19/03	10.53	6.53	4.00	NA	NA	NA	NA	NA
	10/28/03	10.53	5.70	4.83	NA	NA	NA	NA	NA
	11/20/03	10.53	6.12	4.41	<1.0	<1.0	<1.0	<1.0	<1.0
	02/05/04	10.53	5.49	5.04	NA	NA	NA	NA	NA
	05/24/04	10.53	7.12	3.41	<1.0	<1.0	<1.0	<1.0	<1.0
	09/27/04	10.53	Not sampled [7]						
	12/02/04	10.53	5.94	4.59	<1.0	<1.0	<1.0	<1.0	<1.0
	03/09/05	10.53	6.20	4.33	<1.0	<1.0	<1.0	<1.0	<1.0
	6/16/2005	10.53	6.65	3.88	<1.0	<1.0	<1.0	<1.0	<1.0

Table 3: Groundwater Analytical Results - MW-3
1099 Waterfront Drive, Eureka, California

Well ID Number	Date	Water Level Elevation (feet > msl)	2,4,6-Trichlorophenol (µg/l)	2,3,5,6-Tetrachlorophenol (µg/l)	2,3,4,6-Tetrachlorophenol (µg/l)	2,3,4,5-Tetrachlorophenol (µg/l)	Pentachlorophenol (µg/l)
MW-3	03/27/99	7.82	<0.1	<0.1	<0.1	<0.1	<0.1
	06/21/99	3.50	<0.1	<0.1	<0.1	<0.1	**0.31**
	09/27/99	6.65	<1.0	<1.0	**16**	<1.0	**0.31**
	12/22/99	7.50	<1.0	<1.0	<1.0	<1.0	<1.0
	03/16/00	7.85	<1.0	<1.0	<1.0	<1.0	<1.0
	06/08/00	Not sampled [7]					
	09/12/00	Not sampled [7]					
	12/13/00	7.65	<1.0	<1.0	<1.0	<1.0	<1.0
	02/06/01	7.48	<1.0	<1.0 [2]		<1.0	<1.0
	5/16/01 [4]	7.43	NA	NA	NA	NA	NA
	08/21/01	6.88	<1.0	<1.0	<1.0	<1.0	<1.0
	11/13/01	7.01	NA	NA	NA	NA	NA
	02/12/02	7.55	NA	NA	NA	NA	NA
	05/14/02	7.38	NA	NA	NA	NA	NA
	08/22/02	Not sampled [7]					
	11/20/02	7.18	NA	NA	NA	NA	NA
	02/26/03	7.82	NA	NA	NA	NA	NA
	05/09/03	7.96	NA	NA	NA	NA	NA
	08/19/03	7.14	<1.0	<1.0	<1.0	<1.0	<1.0
	10/28/03	Well Abandoned September 2003 and replaced by MW-3R					

Table 3a: Groundwater Analytical Results - MW-3R
1099 Waterfront Drive, Eureka, California

Well ID Number	Date	Top of Casing Elevation (ft>msl)	Depth to Groundwater (feet)	Water Level Elevation (feet > msl)	2,4,6-Trichlorophenol (µg/l)	2,3,5,6-Tetrachlorophenol (µg/l)	2,3,4,6-Tetrachlorophenol (µg/l)	2,3,4,5-Tetrachlorophenol (µg/l)	Pentachlorophenol (µg/l)
MW-3R	10/28/03 [4]	10.49	3.22	7.27	<1.0	<1.0	<1.0	<1.0	<1.0
	11/20/03	10.49	2.83	7.66	NA	NA	NA	NA	NA
	02/05/04	10.49	2.24	8.25	NA	NA	NA	NA	NA
	05/24/04	10.49	2.46	8.03	NA	NA	NA	NA	NA
	09/27/04	10.49	2.84	7.65	<1.0	<1.0	<1.0	<1.0	<1.0
	12/02/04	10.49	2.69	7.80	NA	NA	NA	NA	NA
	03/09/05	10.49	2.50	7.99	NA	NA	NA	NA	NA
	06/16/05	10.49	2.50	7.99	<1.0	<1.0	<1.0	<1.0	<1.0

Table 4: Groundwater Analytical Results - MW-4
1099 Waterfront Drive, Eureka, California

Well ID Number	Date	Top of Casing Elevation (ft>msl)	Depth to Groundwater (feet)	Water Level Elevation (feet > msl)	2,4,6-Trichlorophenol (µg/l)	2,3,5,6-Tetrachlorophenol (µg/l)	2,3,4,6-Tetrachlorophenol (µg/l)	2,3,4,5-Tetrachlorophenol (µg/l)	Pentachlorophenol (µg/l)
MW-4	03/27/99	10.06	2.14	7.92	<0.1	<0.1	**0.12**	<0.1	**0.3**
	06/21/99	10.06	2.28	7.78	<0.1	**0.21**	**1.2**	<0.1	**3.0**
	09/27/99	10.06	2.53	7.53	<1.0	<1.0	<1.0	<1.0	<1.0
	12/22/99	10.06	2.29	7.77	<1.0	<1.0	<1.0	<1.0	<1.0
	03/16/00	10.06	2.01	8.05	<1.0	<1.0	<1.0	<1.0	<1.0
	06/09/00	10.06	2.28	7.78	<1.0	<1.0	<1.0	<1.0	<1.0
	09/12/00	10.06	2.45	7.61	<1.0	<1.0	<1.0	<1.0	**1.8**
	12/13/00	10.06	2.10	7.96	NA	NA	NA	NA	NA
	02/06/01	10.06	2.09	7.97	<1.0 [1]	<1.0 [2]		<1.0	<1.0
	5/16/01 [4]	10.06	2.70	7.36	NA	NA	NA	NA	NA
	08/21/01	10.06	2.51	7.55	<1.0	<1.0	<1.0	<1.0	<1.0
	11/13/01	10.06	2.09	7.97	NA	NA	NA	NA	NA
	02/12/02	10.06	1.87	8.19	NA	NA	NA	NA	NA
	05/14/02	10.06	2.15	7.91	NA	NA	NA	NA	NA
	08/22/02	10.06	2.00	8.06	<1.0	<1.0	<1.0	<1.0	<1.0
	11/20/02	10.06	2.36	7.70	NA	NA	NA	NA	NA
	02/26/03	10.06	1.99	8.07	NA	NA	NA	NA	NA
	05/09/03	10.06	1.86	8.20	NA	NA	NA	NA	NA
	08/19/03	10.06	2.15	7.91	<1.0	<1.0	<1.0	<1.0	<1.0
	10/28/03	10.06	2.00	8.06	NA	NA	NA	NA	NA
	11/20/03	10.06	1.92	8.14	NA	NA	NA	NA	NA
	02/05/04	10.06	1.91	8.15	NA	NA	NA	NA	NA
	05/24/04	10.06	2.03	8.03	NA	NA	NA	NA	NA
	09/27/04	10.06	2.27	7.79	<1.0	<1.0	<1.0	<1.0	<1.0
	12/02/04	10.06	2.27	7.79	NA	NA	NA	NA	NA
	03/09/05	10.06	2.13	7.93	NA	NA	NA	NA	NA
	6/16/2005	10.06	2.11	7.95	<1.0	<1.0	<1.0	<1.0	<1.0

Table 5: Groundwater Analytical Results - MW-5
1099 Waterfront Drive, Eureka, California

Well ID Number	Date	Top of Casing Elevation (ft>msl)	Depth to Groundwater (feet)	Water Level Elevation (feet > msl)	2,4,6-Trichlorophenol (µg/l)	2,3,5,6-Tetrachlorophenol (µg/l)	2,3,4,6-Tetrachlorophenol (µg/l)	2,3,4,5-Tetrachlorophenol (µg/l)	Pentachlorophenol (µg/l)
MW-5	03/27/99	10.03	1.43	8.60	<0.1	<0.1	<0.1	<0.1	**0.14**
	06/21/99	10.03	2.81	7.22	<0.1	<0.1	**0.38**	<0.1	**1**
	09/27/99	10.03	3.19	6.84	<1.0	<1.0	<1.0	<1.0	<1.0
	12/22/99	10.03	2.30	7.73	<1.0	<1.0	<1.0	<1.0	<1.0
	03/16/00	10.03	1.15	8.88	<1.0	<1.0	<1.0	<1.0	<1.0
	06/09/00	10.03	2.31	7.72	<1.0	<1.0	<1.0	<1.0	<1.0
	09/12/00	10.03	3.18	6.85	<1.0	<1.0	<1.0	<1.0	<1.0
	12/13/00	10.03	2.24	7.79	<1.0	<1.0	<1.0	<1.0	<1.0
	02/06/01	10.03	2.33	7.70	<1.0 [1]	<1.0 [2]		<1.0	<1.0
	5/16/01 [4]	10.03	2.33	7.70	NA	NA	NA	NA	NA
	08/21/01	10.03	3.24	6.79	<1.0	<1.0	<1.0	<1.0	<1.0
	11/13/01	10.03	1.90	8.13	NA	NA	NA	NA	NA
	02/12/02	10.03	2.14	7.89	NA	NA	NA	NA	NA
	05/14/02	10.03	2.65	7.38	NA	NA	NA	NA	NA
	08/22/02	10.03	3.10	6.93	<1.0	<1.0	<1.0	<1.0	<1.0
	11/20/02	10.03	2.74	7.29	NA	NA	NA	NA	NA
	02/26/03	10.03	2.09	7.94	NA	NA	NA	NA	NA
	05/09/03	10.03	1.77	8.26	NA	NA	NA	NA	NA
	08/19/03	10.03	2.66	7.37	<1.0	<1.0	<1.0	<1.0	<1.0
	10/28/03	10.03	2.54	7.49	NA	NA	NA	NA	NA
	11/20/03	10.03	1.92	8.11	NA	NA	NA	NA	NA
	02/05/04	10.03	1.65	8.38	NA	NA	NA	NA	NA
	05/24/04	10.03	2.43	7.60	NA	NA	NA	NA	NA
	09/27/04	10.03	2.74	7.29	<1.0	<1.0	<1.0	<1.0	<1.0
	12/02/04	10.03	2.38	7.65	NA	NA	NA	NA	NA
	03/09/05	10.03	2.35	7.68	NA	NA	NA	NA	NA
	06/16/05	10.03	2.50	7.53	<1.0	<1.0	<1.0	<1.0	<1.0

Table 6: Groundwater Analytical Results - MW-6
1099 Waterfront Drive, Eureka, California

Well ID Number	Date	Top of Casing Elevation (ft>msl)	Depth to Groundwater (feet)	Water Level Elevation (feet > msl)	2,4,6-Trichlorophenol (µg/l)	2,3,5,6-Tetrachlorophenol (µg/l)	2,3,4,6-Tetrachlorophenol (µg/l)	2,3,4,5-Tetrachlorophenol (µg/l)	Pentachlorophenol (µg/l)
MW-6	02/06/01	10.71	2.75	7.96	**4.5**	<1.0 [2]		<1.0	<1.0
	05/16/01	10.71	2.71	8.00	<1.0	<1.0	<1.0	<1.0	**6.1**
	08/21/01	10.71	3.24	7.47	<1.0	<1.0	<1.0	<1.0	<1.0
	11/13/01	10.71	2.87	7.84	NR	<1.0 [2]		<1.0	<1.0
	02/12/02	10.71	2.41	8.30	<1.0	<1.0	<1.0	<1.0	<1.0
	05/14/02	10.71	2.51	8.20	<1.0	<1.0	<1.0	<1.0	<1.0
	08/22/02	10.71	2.98	7.73	<1.0	<1.0	<1.0	<1.0	<1.0
	11/20/02	10.71	2.96	7.75	<1.0	<1.0	<1.0	<1.0	<1.0
	02/26/03	10.71	2.31	8.40	<1.0	<1.0	<1.0	<1.0	<1.0
	05/09/03	10.71	2.16	8.55	<1.0	<1.0	<1.0	<1.0	<1.0
	08/19/03	10.71	2.59	8.12	<1.0	<1.0	<1.0	<1.0	<1.0
	10/28/03	10.71	2.67	8.04	<1.0	<1.0	<1.0	<1.0	<1.0
	11/20/03	10.71	2.49	8.22	<1.0	<1.0	<1.0	<1.0	<1.0
	02/05/04	10.71	2.18	8.53	<1.0	<1.0	<1.0	<1.0	<1.0
	06/02/04 [6]	10.71	2.38	8.33	<1.0	<1.0	<1.0	<1.0	<1.0
	09/27/04	10.71	2.74	7.97	<1.0	<1.0	<1.0	<1.0	<1.0
	12/02/04	10.71	2.70	8.01	<1.0	<1.0	<1.0	<1.0	<1.0
	03/09/05	10.71	2.56	8.15	<1.0	<1.0	<1.0	<1.0	<1.0
	06/16/05	10.71	NM	NM	NA	NA	NA	NA	NA

Table 7: Groundwater Analytical Results - MW-7
1099 Waterfront Drive, Eureka, California

Well ID Number	Date	Top of Casing Elevation (ft>msl)	Depth to Groundwater (feet)	Water Level Elevation (feet > msl)	2,4,6-Trichlorophenol (µg/l)	2,3,5,6-Tetrachlorophenol (µg/l)	2,3,4,6-Tetrachlorophenol (µg/l)	2,3,4,5-Tetrachlorophenol (µg/l)	Pentachlorophenol (µg/l)
MW-7	02/06/01	10.76	2.79	7.97	<1.0	<1.0 [2]		<1.0	<1.0 [5]
	05/16/01	10.76	2.78	7.98	<1.0	<1.0		<1.0	<1.0
	08/21/01	10.76	3.19	7.57	<1.0	<1.0		<1.0	<1.0
	11/13/01	10.76	3.10	7.66	NR	<1.0 [2]		<1.0	<1.0
	02/12/02	10.76	2.52	8.24	<1.0	<1.0		<1.0	<1.0
	05/14/02	10.76	2.63	8.13	<1.0	<1.0		<1.0	<1.0
	08/22/02	10.76	3.06	7.7	<1.0	<1.0		<1.0	<1.0
	11/20/02	10.76	3.03	7.73	<1.0	<1.0		<1.0	<1.0
	02/26/03	10.76	2.37	8.39	<1.0	<1.0		<1.0	<1.0
	05/09/03	10.76	2.24	8.52	<1.0	<1.0		<1.0	<1.0
	08/19/03	10.76	2.79	7.97	<1.0	<1.0		<1.0	<1.0
	10/28/03	10.76	2.89	7.87	<1.0	<1.0		<1.0	<1.0
	11/20/03	10.76	2.69	8.07	<1.0	<1.0		<1.0	<1.0
	02/05/04	10.76	2.29	8.47	<1.0	<1.0		<1.0	<1.0
	06/02/04 [6]	10.76	2.50	8.26	<1.0	<1.0		<1.0	<1.0
	09/27/04	10.76	2.86	7.90	<1.0	<1.0		<1.0	<1.0
	12/02/04	10.76	2.79	7.97	<1.0	<1.0		<1.0	<1.0
	03/09/05	10.76	2.62	8.14	<1.0	<1.0		<1.0	<1.0
	6/16/2005	10.76	2.64	8.12	<1.0	<1.0		<1.0	<1.0

Table 8: Groundwater Analytical Results - MW-8D
1099 Waterfront Drive, Eureka, California

Well ID Number	Date	Top of Casing Elevation (ft>msl)	Depth to Groundwater (feet)	Water Level Elevation (feet > msl)	2,4,6-Trichlorophenol (µg/l)	2,3,5,6-Tetrachlorophenol (µg/l)	2,3,4,6-Tetrachlorophenol (µg/l)	2,3,4,5-Tetrachlorophenol (µg/l)	Pentachlorophenol (µg/l)
MW-8D	10/28/03	11.15	6.13	5.02	<1.0	**<1.5** [2]		<1.0	**6.6**
	11/20/03	11.15	6.57	4.58	<1.0	<1.0	<1.0	<1.0	<1.0
	02/05/04	11.15	5.96	5.19	<1.0	<1.0	<1.0	<1.0	<1.0
	05/24/04	11.15	7.63	3.52	<1.0	<1.0	<1.0	<1.0	<1.0
	09/27/04	11.15	6.88	4.27	<1.0	<1.0	<1.0	<1.0	<1.0
	12/02/04	11.15	6.42	4.73	<1.0	<1.0	<1.0	<1.0	<1.0
	03/09/05	11.15	6.72	4.43	<1.0	<1.0	<1.0	<1.0	<1.0
	06/16/05	11.15	7.25	3.90	<1.0	<1.0	<1.0	<1.0	<1.0

Table 9: Groundwater Analytical Results - MW-9D
1099 Waterfront Drive, Eureka, California

Well ID Number	Date	Top of Casing Elevation (ft>msl)	Depth to Groundwater (feet)	Water Level Elevation (feet > msl)	2,4,6-Trichlorophenol (µg/l)	2,3,5,6-Tetrachlorophenol (µg/l)	2,3,4,6-Tetrachlorophenol (µg/l)	2,3,4,5-Tetrachlorophenol (µg/l)	Pentachlorophenol (µg/l)
MW-9D	02/05/04	11.01	5.86	5.15	<1.0	<1.0	**1.9**	<1.0	**12**
	05/24/04	11.01	7.53	3.48	<1.0	<1.0	<1.0	<1.0	<1.0
	09/27/04	11.01	6.78	4.23	<1.0	<1.0	<1.0	<1.0	<1.0
	12/02/04	11.01	6.32	4.69	<1.0	<1.0	<1.0	<1.0	<1.0
	03/09/05	11.01	6.75	4.26	<1.0	<1.0	<1.0	<1.0	<1.0
	6/16/2005	11.01	7.09	3.92	<1.0	<1.0	<1.0	<1.0	<1.0

Table 10: Soil Analytical Results - Pentachlorophenol-1997
1099 Waterfront Drive, Eureka, CA

Boring Sample ID	Date	Pentachlorophenol (8040-Modified) (mg/kg)
B-1-5.5'	11/10/97	**16**
B-1-10'	11/10/97	**10**
B-1-15'	11/10/97	<1.0
B-1-20.5'	11/10/97	<1.0
B-1-25'	11/10/97	<1.0
B-1-30.5'	11/10/97	<1.0
B-2-5'	11/11/97	<1.0
B-2-10'	11/11/97	<1.0
B-2-15'	11/11/97	<1.0
B-2-20.5'	11/11/97	<1.0
B-2-25'	11/11/97	<1.0
B-3-5.5'	11/12/97	**4.8**
B-3-10'	11/12/97	<1.0
B-3-14'	11/12/97	**6**
B-4-4'	11/12/97	**2.7**
B-4-9'	11/12/97	**2.6**
B-4-14'	11/12/97	<1.0
B-5-4'	11/12/97	**5.7**
B-5-9'	11/12/97	**2.1**
B-6-4'	11/12/97	<1.0
B-6-9'	11/12/97	<1.0
B-10-9'	11/13/97	<1.0
B-11-9'	11/13/97	<1.0
B-12-9'	11/13/97	<1.0
B-13-9'	11/13/97	<1.0
B-14-9'	11/13/97	<1.0
B-15-9'	11/13/97	<1.0
B-16-9'	11/13/97	<1.0
B-17-9'	11/13/97	<1.0
B-18-9'	11/13/97	<1.0
B-19-9'	11/14/97	**1.6**
B-20-9'	11/14/97	<1.0
B-21-9'	11/14/97	<1.0
B-22-9'	11/14/97	<1.0

Table 11: Groundwater Analytical Results - Pentachlorophenol - 1997
1099 Waterfront Drive, Eureka, CA

Boring Sample ID	Date	Pentachlorophenol (8040-Modified) (µg/l)
B-1-5'-Water	11/10/97	**3,700**
B-1-17'-Water	11/10/97	**12**
B-1-27'-Water	11/11/97	**10**
B-2-6'-Water	11/11/97	**16**
B-2-18'-Water	11/11/97	<10
B-3-5'-Water	11/12/97	**5,800**
B-3-17'-Water	11/12/97	**94**
B-4-5'-Water	11/12/97	**3,700**
B-4-17'-Water	11/12/97	<10
B-5-5'-Water	11/12/97	**6,800**
B-6-6'-Water	11/12/97	**3,200**
B-7-5'-Water	11/12/97	**49**
B-8-5'-Water	11/12/97	<10
B-9-5'-Water	11/12/97	**13**
B-10-5'-Water	11/13/97	<10
B-11-5'-Water	11/13/97	<10
B-12-5'-Water	11/13/97	<10
B-13-5'-Water	11/13/97	<10
B-14-5'-Water	11/13/97	<10
B-15-5'-Water	11/13/97	<10
B-16-5'-Water	11/13/97	<10
B-17-5'-Water	11/13/97	<10
B-18-5'-Water	11/13/97	**190**
B-19-5'-Water	11/14/97	**19**
B-20-5'-Water	11/14/97	<10
B-21-5'-Water	11/14/97	<10
B-22-5'-Water	11/14/97	<10
Rinsate Comp.	11/14/97	<10
B-9A-5'-Water	11/14/97	<10

Table 12: 8040/8270 Groundwater Analytical Confirmation/Comparison
1099 Waterfront Drive, Eureka, CA

Boring Sample ID	Date	Pentachlorophenol 8040-Modified	Pentachlorophenol 8270
		(µg/l)	
B-3-5'-Water	11/12/97	**5,800**	**7,800**
B-3-17'-Water	11/12/97	**94**	**12**
B-7-5'-Water	11/12/97	**49**	**1.6**
B-15-5'-Water	11/13/97	<10	<10
B-16-5'-Water	11/13/97	<10	<10
B-17-5'-Water	11/13/97	<10	**8.4**
B-20-5'-Water	11/14/97	<10	<10
B-21-5'-Water	11/14/97	<10	<10
B-22-5'-Water	11/14/97	<10	<10
B-10A-5'-Water	11/14/97	<10	**2.1**
B-13A-5'-Water	11/14/97	<10	**1.1**
B-14A-5'-Water	11/14/97	<10	**1.2**

Table 13: Groundwater Analytical Results:
Dioxins and Furans - 3/20/2000
1099 Waterfront Drive, Eureka, CA

Analyte	MW-1	MW-2
	(pg/l)	
2,3,7,8-TCDD	ND	ND
1,2,3,7,8-PeCDD	ND	ND
1,2,3,4,7,8-HxCDD	ND	ND
1,2,3,6,7,8-HxCDD	ND	ND
1,2,3,7,8,9-HxCDD	ND	ND
1,2,3,4,6,7,8-HpCDD	ND	ND
OCDD	ND	ND
2,3,7,8-TCDF	ND	ND
1,2,3,7,8-PeCDF	ND	ND
2,3,4,7,8-PeCDF	ND	ND
1,2,3,4,7,8-HxCDF	ND	ND
1,2,3,6,7,8-HxCDF	ND	ND
2,3,4,6,7,8-HxCDF	ND	ND
1,2,3,7,8,9-HxCDF	ND	ND
1,2,3,4,6,7,8-HpCDF	ND	ND
1,2,3,4,7,8,9-HpCDF	ND	ND
OCDF	ND	ND

Table 14: Groundwater Analytical Results - Trihalomethanes - 2005
1099 Waterfront Drive, Eureka, California

Date	Well Identification Number	Chloroform (µg/l)	Dibromodichloromethane (µg/l)	Dibromochloromethane (µg/l)	Bromoform (µg/l)
6/16/2005	MW-1	<1.0	<1.0	<1.0	<1.0
	MW-2	<1.0	<1.0	<1.0	<1.0
	MW-3R	<1.0	<1.0	<1.0	<1.0
	MW-4	<1.0	<1.0	<1.0	<1.0
	MW-5	<1.0	<1.0	<1.0	<1.0
	MW-6	NM[7]	NM[7]	NM[7]	NM[7]
	MW-7	<1.0	<1.0	<1.0	<1.0
	MW-8D	<1.0	<1.0	<1.0	<1.0
	MW-9D	<1.0	<1.0	<1.0	<1.0

Table 15: Monitor Well Boring Analytical Results: Soil - 2001
1099 Waterfront Drive, Eureka, California

Well/Boring Sample ID	Date	2,4,6-Trichlorophenol	2,3,4,5-Tetrachlorophenol	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	Pentachlorophenol
		(mg/kg)				
MW-6-4'	01/23/01	<1.0	<1.0	<1.0	<1.0	<1.0
MW-7-4'	01/23/01	<1.0	<1.0	<1.0	<1.0	<1.0

Table 16: Soil Boring Analytical Results - 2003
1099 Waterfront Drive, Eureka, California

Well/Boring Sample ID	Date	2,3,(4/5),6-Tetrachlorophenol	2,3,4,5-Tetrachlorophenol	2,4,6-Trichlorophenol	Pentachlorophenol	Total Organic Carbon	pH
		(mg/kg)					Units
B-101-4'	09/15/03	<1.0	<1.0	<1.0	<1.0	**3,060**	**8.2**
B-101-9'	09/15/03	<1.0	<1.0	<1.0	<1.0	**4,720**	**7.3**
B-101-14'	09/15/03	<1.0	<1.0	<1.0	<1.0	**1,410**	**8.3**
B-102-4'	09/16/03	<1.0	<1.0	<1.0	<1.0	**1,620**	**8.5**
B-102-9'	09/16/03	<1.0	<1.0	<1.0	<1.0	**7,790**	**7.9**
B-102-14'	09/16/03	<1.0	<1.0	<1.0	<1.0	**1,530**	**8.4**
B-103-4'	09/16/03	<1.0	<1.0	<1.0	<1.0	**1,120**	**8.4**
B-103-9'	09/16/03	<1.0	<1.0	<1.0	<1.0	**6,950**	**8.2**
B-103-14'	09/16/03	<1.0	<1.0	<1.0	<1.0	**1,180**	**8.3**
B-104-6'	09/16/03	<1.0	<1.0	<1.0	<1.0	**1,380**	**7.9**
B-104-9'	09/16/03	<1.0	<1.0	<1.0	<1.0	**2,660**	**8.3**
B-104-13'	09/16/03	<1.0	<1.0	<1.0	<1.0	**4,680**	**8.1**
B-104-18'	09/16/03	<1.0	<1.0	<1.0	<1.0	**1,370**	**8.4**
B-105-4'	09/17/03	<1.0	<1.0	<1.0	<1.0	**792**	NA

Table 16: Soil Boring Analytical Results - 2003
1099 Waterfront Drive, Eureka, California

Well/Boring Sample ID	Date	2,3,(4/5),6-Tetrachlorophenol	2,3,4,5-Tetrachlorophenol	2,4,6-Trichlorophenol	Pentachlorophenol	Total Organic Carbon	pH
		(mg/kg)					Units
B-105-9'	09/17/03	<1.0	<1.0	<1.0	<1.0	**7,150**	NA
B-105-14'	09/17/03	<1.0	<1.0	<1.0	<1.0	**1,460**	NA
B-106-4'	09/17/03	<1.0	<1.0	<1.0	<1.0	**1,000**	NA
B-106-9'	09/17/03	<1.0	<1.0	<1.0	<1.0	**7,860**	NA
B-107-1'	09/18/03	<1.0	<1.0	<1.0	<1.0	**2,710**	**8.2**
B-107-4'	09/18/03	<1.0	<1.0	<1.0	<1.0	**923**	**8.2**
B-107-7'	09/18/03	<1.0	<1.0	<1.0	<1.0	**13,200**	**8.0**
B-107-9'	09/18/03	<1.0	<1.0	<1.0	<1.0	**7,730**	**8.0**
B-108-1'	09/18/03	<1.0	<1.0	<1.0	<1.0	**1,240**	**8.5**
B-108-4'	09/18/03	<1.0	<1.0	<1.0	<1.0	**960**	**8.3**
B-108-6.5'	09/18/03	<1.0	<1.0	<1.0	<1.0	**10,900**	**7.8**
B-108-9'	09/18/03	<1.0	<1.0	<1.0	<1.0	**1,930**	**8.7**
B-108-14'	09/18/03	<1.0	<1.0	<1.0	<1.0	**2,090**	**8.2**
B-109-4'	09/18/03	<1.0	<1.0	<1.0	<1.0	**1,170**	**7.7**
B-109-9'	09/18/03	<1.0	<1.0	<1.0	<1.0	**2,850**	**8.4**
B-109-14'	09/18/03	<1.0	<1.0	<1.0	<1.0	**3,660**	**8.5**

Table 17: Monitor Well Boring Analytical Results: Soil -2003
1099 Waterfront Drive, Eureka, California

Well/Boring Sample ID	Date	2,3,(4/5),6-Tetrachlorophenol	2,3,4,5-Tetrachlorophenol	2,4,6-Trichlorophenol	Pentachlorophenol	Total Organic Carbon	pH
		(mg/kg)					Units
MW-3R-4'	09/15/03	<1.0	<1.0	<1.0	<1.0	**1,390**	**8.1**
MW-3R-9'	09/15/03	<1.0	<1.0	<1.0	<1.0	**2,320**	**8.3**
MW-3R-14'	09/15/03	<1.0	<1.0	<1.0	<1.0	**1,920**	**7.9**
MW-8D-1.5'	09/15/03	<1.0	<1.0	<1.0	<1.0	**907**	**8.7**
MW-8D-4'	09/15/03	<1.0	<1.0	<1.0	<1.0	**965**	**8.4**
MW-8D-7'	09/15/03	**2.1**	<1.0	<1.0	**7.6**	**9,530**	**7.4**
MW-8D-9'	09/15/03	**1.3**	<1.0	<1.0	**5.3**	**7,670**	**8.2**
MW-8D-13.5'	09/15/03	<1.0	<1.0	<1.0	<1.0	**4,690**	**8.1**

Table 18: Boring Analytical Results– 2003: Groundwater
1099 Waterfront Drive, Eureka, California

Well/Boring Sample ID	Date	2,3,(4/5),6-Tetrachlorophenol	2,3,4,5-Tetrachlorophenol	2,4,6-Trichlorophenol	Pentachlorophenol	Total Organic Carbon
		(µg/l)				(mg/l)
B-101-Water-9'	09/15/03	<1.0	<1.0	<1.0	<1.0	**83.2**
B-101-Water-15'	09/15/03	<1.0	<1.0	<1.0	<1.0	**15.9**
B-102-Water-9'	09/16/03	<1.0	<1.0	<1.0	<1.0	**10.4**
B-102-Water-17'	09/16/03	<1.0	<1.0	<1.0	<1.0	**19.3**
B-103-Water-9'	09/16/03	<1.0	<1.0	<1.0	<1.0	**7.62**
B-103-Water-14'	09/16/03	<1.0	<1.0	<1.0	<1.0	**26.5**
B-104-Water-9'	09/16/03	<1.0	<1.0	<1.0	<1.0	**5.50**
B-104-Water-20'	09/16/03	<1.0	<1.0	<1.0	<1.0	**33.1**
B-105-Water-9'	09/17/03	<1.0	<1.0	<1.0	<1.0	**8.52**
B-105-Water-17'	09/17/03	<1.0	<1.0	<1.0	<1.0	**30.3**
B-106-Water-9'	09/17/03	<1.0	<1.0	<1.0	<1.0	**7.26**
B-106-Water-17'	09/17/03	<1.0	<1.0	<1.0	<1.0	**10.8**
B-107-Water-9' Pre-Purge	09/18/03	**19**	**2.4**	<1.0	**62**	**3.06**
B-107-Water-9' Post-Purge	09/18/03	**10**	**1.2**	<1.0	**28**	NA
B-107-Water Hydropunch	09/18/03	**1.6**	<1.0	<1.0	**1.3**	NA
B-108-Water-7' Pre-Purge	09/18/03	**9.5**	**7.5**	<1.0	**29**	**9.20**
B-108-Water-7' Post-Purge	09/18/03	**4.0**	<1.0	<1.0	**19**	NA
B-109-Water-9'	09/18/03	**860**	**44**	**4.4**	**2,400**	**64.5**
B-109-Water-16'	09/18/03	<1.0	**<1.0**	<1.0	<1.0	**25.2**

Table 19: Monitor Well Boring Analytical Results – 2003: Groundwater
1099 Waterfront Drive, Eureka, California

Well/Boring Sample ID	Date	2,3,(4/5),6-Tetrachlorophenol	2,3,4,5-Tetrachlorophenol	2,4,6-Trichlorophenol	Pentachlorophenol	Total Organic Carbon
		(µg/l)				(mg/l)
MW-3R-Water-9'	09/15/03	<1.0	<1.0	<1.0	<1.0	41.1
MW-3R-Water-15'	09/15/03	<1.0	<1.0	<1.0	<1.0	24.8
MW-8D-Water-9'	09/17/03	**350**	**42**	**3.0**	**1,000**	6.32
MW-8D-Water-16'	09/17/03	<1.0	<1.0	<1.0	<1.0	40.2

Table 20: Monitor Well Boring Analytical Results: Soil – 2004
1099 Waterfront Drive, Eureka, California

Well/Boring Sample ID	Date	2,3,(4/5),6-Tetrachlorophenol	2,3,4,5-Tetrachlorophenol	2,4,6-Trichlorophenol	Pentachlorophenol
		(mg/kg)			
MW-9D@4.0'	01/30/04	<1.0	<1.0	<1.0	<1.0
MW-9D@9.0'	01/30/04	<1.0	<1.0	<1.0	<1.0

Table 21: High Silt-Clay-Peat Zones
1099 Waterfront Drive, Eureka, California

Well/Boring ID Number	Total Depth (feet)	Interval (Feet)	Interval of Silt/Clay/Peat and Type (feet)
B-1	50	7-8	Silt (Bay Mud)
B-2	26	@10'	Wood
B-3	20	6-7'	Peat (Bay Mud?)
B-4	20	@10'	Wood
B-5	10	9'	Abundant plant and matter
B-6	10	7.5-10'	Peaty-abundant plant matter
B-7	5		None
B-8	5		None
B-9	5		None
B-10	10		None
B-11	10		None
B-12	10	8.5'	High plant matter
B-13	10	9'	Plant matter
B-14	10		None
B-15	10	5.5-10'	Sily sand, abundant plant matter
B-16	10		None
B-17	10	8.5'	Abundant plant matter
B-18	10		None
B-19	10	6.5-10'	Silty sand with plant matter
B-20	10	6-10'	Silty sand with plant matter
B-21	10		None
B-22	10		None
B-101	17	6.25-7.5'	Clay w/grass (Bay Mud/marsh deposit)
B-102	17.5	7.0-8.0'	Clay (Bay Mud ?)
B-103	17.5	6.25-6.75'	Peat (marsh deposit)
B-104	20.5	9.25-9.75'	Organic soil w/grass (Peat?)
B-105	18	7.0-7.75'	Silty clay w/grass (Bay Mud/marsh deposit)
B-106	17.5	6.5-7.5'	Peaty clay w/grass (marsh deposit)
B-107	9.5	6.75-8.0'	Clay w/grass (Bay Mud/marsh deposit)
B-108	15	7.75-8.25'	Clay w/grass (Bay Mud/marsh deposit)
B-109	17.5	7.0-7.5'	Clayey silt w/grass (Bay Mud/marsh deposit)
MW-1	10	8.5-10'	Clayey Sand (Bay Mud)
MW-2	20	11-15'	Sandy Clay (Bay Mud)
MW-3	10	7-10'	Sandy-Silty Clay (Bay Mud)
MW-3R	17.5	5.5-6.5'	Silty Clay w/grass (Bay Mud/marsh deposit)
MW-4	10		None
MW-5	10		None
MW-6	10		None
MW-7	10		None
MW-8D	20	5.5-6.5'	Silty clay w/grass (Bay Mud/marsh deposit)
MW-9D	20.5	7.75-8.25'	Clay w/grass (Bay Mud/marsh deposit)
MW-10	16.5	8.5-9.2'	Clay w/abundant roots & grass (Bay Mud/marsh deposit)
MW-11	16.5	12.3-13.2'	Clayey sand w/some roots
MW-12	16	8.5-9.0'	Peat (Marsh deposit)
MW-13	16.5	8.5-9.0'	Peat (Marsh deposit)

Table 22: Monitor Well Boring Analytical Results: Soil – 2005
1099 Waterfront Drive, Eureka, California

Well/Boring Sample ID	Date	2,3,5,6-Tetrachlorophenol	2,3,4,6-Tetrachlorophenol	2,3,4,5-Tetrachlorophenol	2,4,6-Trichlorophenol	2,4,5-Trichlorophenol	2,3,4-Trichlorophenol	Pentachlorophenol	pH	Total Organic Carbon
		(mg/kg)							pH Units	mg/kg
MW-10-2.5-3.0'	9/19/2005	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**7.9**	**1,200**
MW-10-6.5-7.0'	9/19/2005	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**7.6**	**4,100**
MW-10-11.0-11.5'	9/19/2005	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.3**	**6.8**	**5,800**
MW-10-16.0-16.5'	9/19/2005	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.6**	**6.6**	**2,700**
MW-11-2.5-3.0'	9/19/2005	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**7.4**	**1,600**
MW-11-5.5-6.0'	9/19/2005	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**7.1**	**2,100**
MW-11-10.5-11.0	9/19/2005	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**7.6**	**6,600**
MW-11-15.5-16.0'	9/19/2005	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**7**	**6,700**
MW-12-2.5-3.0'	9/20/2005	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**7.7**	**1,400**
MW-12-5.5-6.0'	9/20/2005	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**7.1**	**1,700**
MW-12-10.5-11.0'	9/20/2005	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**6.9**	**6,600**
MW-12-15.5-16.0'	9/20/2005	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**7.9**	**2,900**
MW-13-2.5-3.0'	9/20/2005	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**6.6**	**1,800**
MW-13-6.0-6.5'	9/20/2005	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**7**	**2,000**
MW-12-10.5-11.0'	9/20/2005	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**8**	**2,200**
MW-12-16.0-16.5'	9/20/2005	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**7.4**	**2,000**

Table 23: Groundwater Analytical Results - MW-10
1099 Waterfront Drive, Eureka, California

Well ID Number	Date	Top of Casing Elevation (ft>msl)	Depth to Groundwater (feet)	Water Level Elevation (feet > msl)	2,4,6-Trichlorophenol (µg/l)	2,4,5-Trichlorophenol (µg/l)	2,3,4-Trichlorophenol (µg/l)	2,3,5,6-Tetrachlorophenol (µg/l)	2,3,4,6-Tetrachlorophenol (µg/l)	2,3,4,5-Tetrachlorophenol (µg/l)	Pentachlorophenol (µg/l)
MW-10	10/13/05	11.37	4.08	7.29	<10	<10	<10	<10	**560**	<10	**3,600**

Table 24: Groundwater Analytical Results - MW-11
1099 Waterfront Drive, Eureka, California

Well ID Number	Date	Top of Casing Elevation (ft>msl)	Depth to Groundwater (feet)	Water Level Elevation (feet > msl)	2,4,6-Trichlorophenol (µg/l)	2,4,5-Trichlorophenol (µg/l)	2,3,4-Trichlorophenol (µg/l)	2,3,5,6-Tetrachlorophenol (µg/l)	2,3,4,6-Tetrachlorophenol (µg/l)	2,3,4,5-Tetrachlorophenol (µg/l)	Pentachlorophenol (µg/l)
MW-11	10/13/05	11.01	4.15	6.86	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**7.0**

Table 25: Groundwater Analytical Results - MW-12
1099 Waterfront Drive, Eureka, California

Well ID Number	Date	Top of Casing Elevation (ft>msl)	Depth to Groundwater (feet)	Water Level Elevation (feet > msl)	2,4,6-Trichlorophenol (µg/l)	2,4,5-Trichlorophenol (µg/l)	2,3,4-Trichlorophenol (µg/l)	2,3,5,6-Tetrachlorophenol (µg/l)	2,3,4,6-Tetrachlorophenol (µg/l)	2,3,4,5-Tetrachlorophenol (µg/l)	Pentachlorophenol (µg/l)
MW-12	10/13/05	11.48	3.86	7.62	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Table 26: Groundwater Analytical Results - MW-13
1099 Waterfront Drive, Eureka, California

Well ID Number	Date	Top of Casing Elevation (ft>msl)	Depth to Groundwater (feet)	Water Level Elevation (feet > msl)	2,4,6-Trichlorophenol (µg/l)	2,4,5-Trichlorophenol (µg/l)	2,3,4-Trichlorophenol (µg/l)	2,3,5,6-Tetrachlorophenol (µg/l)	2,3,4,6-Tetrachlorophenol (µg/l)	2,3,4,5-Tetrachlorophenol (µg/l)	Pentachlorophenol (µg/l)
MW-13	10/13/05	11.1	6.85	4.25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Footnotes

1 - Analytical method yields total trichlorophenols as conducted by Analytical Sciences
2 - Co-elution
3 - Well converted to semi-annual sampling program per 3/25/01 NCRWQCB letter
4 - Well converted to annual sampling program per 3/15/01 NCRWQCB letter
5 - Laboratory reports presence of pentachlorophenol below normal laboratory reporting limits
6 - Wells inaccessible 5/27/04. Depth to water measured 6/2/04
7 - Well inaccessible.
NA - Not Analyzed
NR - Not Reported
NM - Not Measured